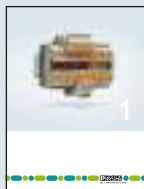




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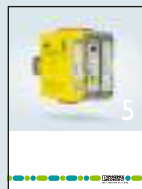
Marking systems, tools, and mounting material

2019/2020



Terminal blocks

- Terminal blocks



Interface technology and switching devices

- Electronic switching devices and motor control
- Measurement and control technology
- Monitoring
- Relay modules
- System cabling for controllers



Sensor/actuator cabling and connectors

- Sensor/actuator cabling
- Cables and lines
- Connectors



Automation

- PLCnext Technology
- Industrial cloud computing
- Software
- PLCs and I/O systems
- Functional safety
- Industrial communication technology
- HMI and industrial PCs
- Lighting and signaling



Marking systems, tools, and mounting material

- Marking and labeling
- Tools
- Installation and mounting material



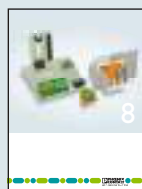
Charging technology for electromobility

- Charging technology for electromobility



Surge protection, power supplies, and device circuit breakers

- Surge protection and interference suppression filters
- Power supplies and UPS
- Protective devices



PCB terminal blocks and PCB connectors

Use our E-paper for quick product selection.

i Web code: #1517

Find out more with the web code

For detailed information, use the web codes provided in this brochure. Simply enter # and the four-digit number in the search field on our website.

i Web code: #1234 (example)

Or use the direct link:

phoenixcontact.net/webcode/#1234

You will find the latest information including all the new products directly in the product area of our website:

phoenixcontact.net/products

You can also use the Phoenix Contact catalog app interactively on your tablet.



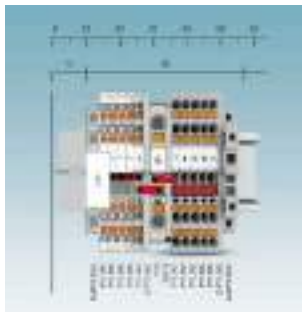
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Marking systems, tools, mounting material

Illustrated product range overview

Planning and marking software



Planning and marking software
PROJECT complete Page 18
Customer-specific printing Page 22
MARKING system app Page 20

Marking systems – MARKING system



TOPMARK NEO for industrial identification
TOPMARK NEO Page 32



TOPMARK NEO SET Page 32



UV LED printing system for industrial identification
BLUEMARK ID and
BLUEMARK ID COLOR Page 33



Thermal transfer printer for material
off the roll
THERMOMARK ROLLMASTER Page 41



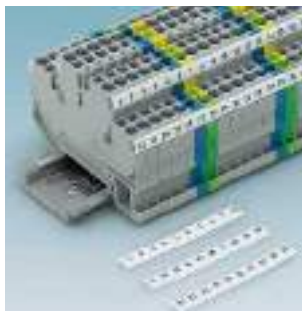
Thermal transfer printer for shrink sleeves
(double-sided printing possible)
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Plotter
PLOTMARK Page 50



Plotter with engraving unit
ENGRAVING UNIT Page 51



Zack marker strip terminal marking
for tall and flat marker groove, for printing
with plotter
ZBF... Page 116



UniCard terminal marking for tall marker
groove, TOPMARK ..., BLUEMARK ...,
THERMOMARK PRIME and CARD ...
UCT-TM... Page 132



UniCard terminal marking for tall and flat
marker groove, TOPMARK ..., BLUEMARK
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UCT-TMF... Page 132



UniSheet terminal marking for universal
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Wire and cable marking – MARKING system



UniCard group marking, for printing with
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THERMOMARK PRIME and CARD ...
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UniCard marking for terminal blocks from other
manufacturers, for printing with TOPMARK ...,
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Stainless steel or aluminum laser cable
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Aluminum cable marking, for printing with
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Thermal transfer printer for mobile or stationary use.
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Thermal transfer printer for printing plastic material in UCT and US format
THERMOMARK CARD 2.0 Page 35



Thermal transfer printer for material off the roll
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THERMOFOX Page 43

Terminal marking – MARKING system



UniCard terminal marking for tall marker groove, for printing with BLUEMARK ... and plotter UC-TM... Page 110



UniCard terminal marking for tall and flat marker groove, for printing with BLUEMARK ... and plotter UC-TMF... Page 110



UniCard terminal marking for marking stud holder, for printing with BLUEMARK ... and plotter UC-TMN... Page 114



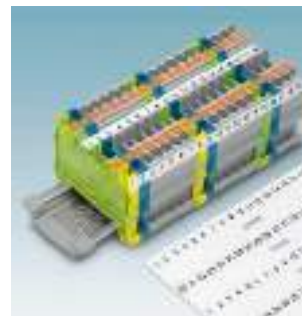
Zack marker strip terminal marking for a tall marker groove, for printing with plotter ZB... Page 116



UniSheet terminal marking for tall and flat marker groove, BLUEMARK ID ..., THERMOMARK PRIME and CARD ... US-TMF... Page 137



Self-adhesive marker strips for terminal blocks without marker groove, BLUEMARK ID ..., THERMOMARK PRIME and CARD ... US-TML... Page 138



Terminal marking material off the roll, marker strips for tall and flat marker groove, for printing with thermal transfer roll printer TMT... Page 140



Terminal marking material off the roll, self-adhesive marker strips for terminal blocks without marker groove, for printing with thermal transfer roll printer TML... SK... Page 146 Page 149



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Thread-on UniCard wire marking, for printing with BLUEMARK ... and plotter UC-WMCO... Page 198



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Thread-on UniCard wire marking, for printing with BLUEMARK ... and plotter UC-WMCO... Page 198

Wire and cable marking – MARKING system



Wire marking with ferrules that can be marked, for printing with BLUEMARK ...
AI-WM... Page 201



UniCard wire marking for marking collars, for printing with BLUEMARK ... and plotter UC-WMT... Page 202



UniCard cable marking for mounting with cable ties, for printing with BLUEMARK ... and plotter UC-WMTB... Page 204
UC-WMTBA... Page 205



UniCard wire marking for marking with TOPMARK ..., BLUEMARK ..., THERMOMARK PRIME and CARD ... UCT-WMT... Page 206



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Cable markers for marking cables and conductors with larger cross sections SD-WMTBS... Page 245



Stainless steel cable marking SD-WMTBS...VA Page 246



Aluminum equipment marking for snapping into marker carriers, for printing with BLUEMARK ID... and BLUEMARK CLED EMP-AL... Page 297



Stick-on UniCard equipment marking with high adhesive strength, for printing with BLUEMARK UC-EMLP... Page 298



Stick-on UniCard equipment marking, for printing with BLUEMARK ... UC-EMLP...EX Page 299



UniCard equipment marking for screwing or riveting, for printing with BLUEMARK ... UC-EMSP... Page 300



Clip-on UniCard wire marking, for printing with TOPMARK ..., BLUEMARK ..., THERMOMARK PRIME and CARD ...
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Clip-on UniCard wire marking, for printing with TOPMARK ..., BLUEMARK ..., THERMOMARK PRIME and CARD ...
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UniCard wire marking for mounting with cable ties, for printing with TOPMARK ..., BLUEMARK ..., THERMOMARK PRIME and CARD ...
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UniCard wire marking for mounting with cable ties, for printing with TOPMARK ..., BLUEMARK ..., THERMOMARK PRIME and CARD ...
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Wire marking material off the roll, thread-on wire marking, for printing with thermal transfer roll printer
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PATG-HF... Page 250



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Stick-on aluminum equipment marking, for printing with BLUEMARK ID ... and BLUEMARK CLED
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Aluminum equipment marking for screwing or riveting, for printing with BLUEMARK ID ... and BLUEMARK CLED
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Marker carriers for UC-EMP ..., US-EMP ... snap-in markers, for printing with BLUEMARK ..., THERMOMARK PRIME and CARD... Page 348



UniCard equipment marking for snapping into label holders, for printing with BLUEMARK ...
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Snap-in UniCard equipment marking, for printing with BLUEMARK ...
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Snap-in UniCard equipment marking for various manufacturers, TOPMARK ..., BLUEMARK ..., THERMOMARK PRIME and CARD ...
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Marking systems, tools, mounting material

Illustrated product range overview

Equipment marking – MARKING system



Stick-on UniSheet equipment marking, for printing with BLUEMARK ID ..., THERMOMARK PRIME and CARD ...
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UniSheet equipment marking for snapping into marker carriers, for printing with BLUEMARK ID ..., THERMOMARK PRIME and CARD ...
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Stick-on equipment marking and additional screws or rivets, for printing with BLUEMARK ID ..., THERMOMARK PRIME and CARD ...
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Equipment marking material off the roll, stick-on, for rough and textured surfaces, for printing with thermal transfer roll printer
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Equipment marking material off the roll, stick-on, for high-temperature applications, for printing with thermal transfer roll printer
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Plant marking –



Stick-on equipment marking material off the roll, for printing with thermal transfer roll printer
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Stick-on equipment marking material off the roll, for printing with thermal transfer roll printer
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Equipment marking material off the roll, stick-on, as tamper protection, for printing with thermal transfer roll printer
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Equipment marking material off the roll, stick-on, as tamper protection, for printing with thermal transfer roll printer
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UniCard plant marking for sticking on or inserting into label holders, for printing with BLUEMARK ...
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Marker carrier for UC-PMP... and PMP-RFID... marking labels
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Plant marking material off the roll, stick-on preprinted warning labels, for printing with thermal transfer roll printer
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Plant marking material off the roll, stick-on preprinted pipeline markers, for printing with thermal transfer roll printer
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Stripping tools
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Stripping tool
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Cable duct cutter
PPS CD M

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DIN rail cutter
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Electronic, cutting, gripping,
and bending pliers
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Stripping tool for solar cables
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Portable crimping device, for stripping
and crimping in just one step
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Multifunctional crimping pliers for cutting,
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Pneumatic crimping pliers for ferrules
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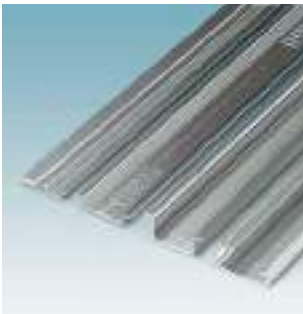
Portable crimping machine for ferrules,
cable lugs, and connectors
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CF CRIMPHANDY
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Stripping and crimping devices for ferrules
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Cable ducts and accessories
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Cable clamps and accessories
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Protective hoses
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COMPLETE line

The comprehensive solution for the control cabinet

Easy planning, intuitive installation



COMPLETE line is a system comprising technologically leading and coordinated hardware and software products, consulting services, and system solutions that help you optimize your processes in control cabinet manufacturing. Engineering, purchasing, installation, and operation become significantly easier for you.

Your advantages at a glance:

- Intuitive handling, thanks to the uniform design, look, and function
- Time savings across the entire engineering process, thanks to consistent software support
- Reduced logistics costs with standardized accessories and reduced variety of parts
- Optimized processes in control cabinet manufacturing, thanks to custom services and innovative manufacturing solutions



Comprehensive product portfolio

With COMPLETE line, we offer a complete product portfolio of technologically leading products. These include:

- Controllers and I/O modules
- Power supplies and device circuit breakers
- Terminal blocks and distribution blocks
- Relay modules and motor starters
- Signal conditioners
- Safety technology
- Surge protection
- Heavy-duty connectors

Intuitive handling

Thanks to the simple, intuitive handling of the coordinated hardware components you will save time during installation, startup, and maintenance. Push-in connection technology enables you to wire applications quickly – without using tools. The broad, technologically leading product portfolio will always provide you with the right product for standard or special applications.

Time savings across the entire engineering process

The PROJECT complete planning and marking software supports the entire control cabinet manufacturing process. The program features an intuitive user interface and enables the individual planning, automatic checking, and direct ordering of terminal strips.



Reduced logistics costs

Reduced variety of parts, thanks to standardized marking, bridging, and testing accessories. The COMPLETE line system coordinates products, design, and accessories in a way that you benefit from maximum reusability and thus reduce your logistics costs.

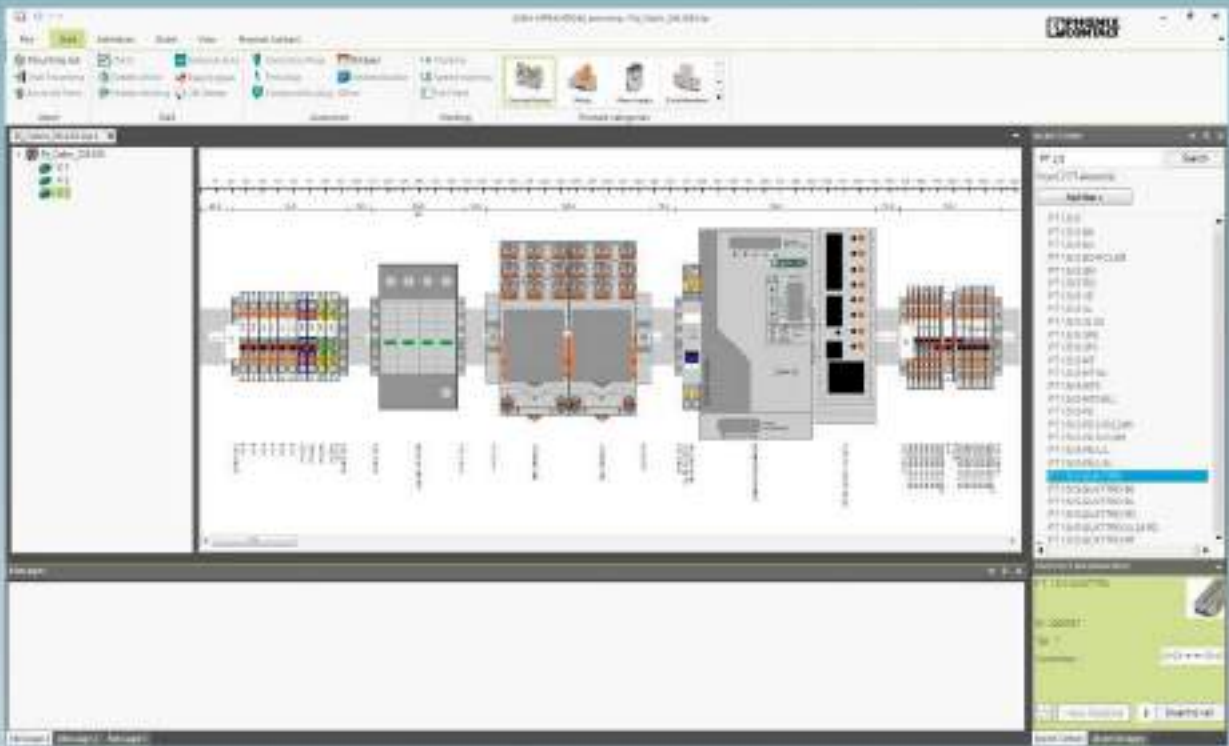
Optimized processes in control cabinet manufacturing

From engineering through to manufacturing, COMPLETE line supports you in making your control cabinet production as efficient as possible. Thus creating a customized concept for optimizing your processes in control cabinet manufacturing. Our terminal strip production helps you to flexibly manage peak order times or to supply your control cabinet production with fully assembled DIN rails just-in-time.

Additional information:

Find out more about COMPLETE line and your comprehensive solutions for the control cabinet. Visit our website:

phoenixcontact.com/completeline



Planning and marking software, MARKING system app, and customer-specific printing service

The PROJECT complete software is the most innovative solution to date, allowing you to plan your terminal strip with ease. Direct data exchange with all conventional CAE software solutions, along with the creation of all project documentation, make this software unique.

The high-performance marking tool optimally supports all output devices and marking materials. Design your own print files quickly and easily with a large selection of different templates, symbols, and formats.

Which marking suits your requirements? Find out with the MARKING system app.

Quickly and easily find the right solution with either the structured search assistant or the integrated bar code scanner. More than 3000 marking solutions, 11 different printing systems, and three marking technologies. You are certain to find the right marking option for your application.

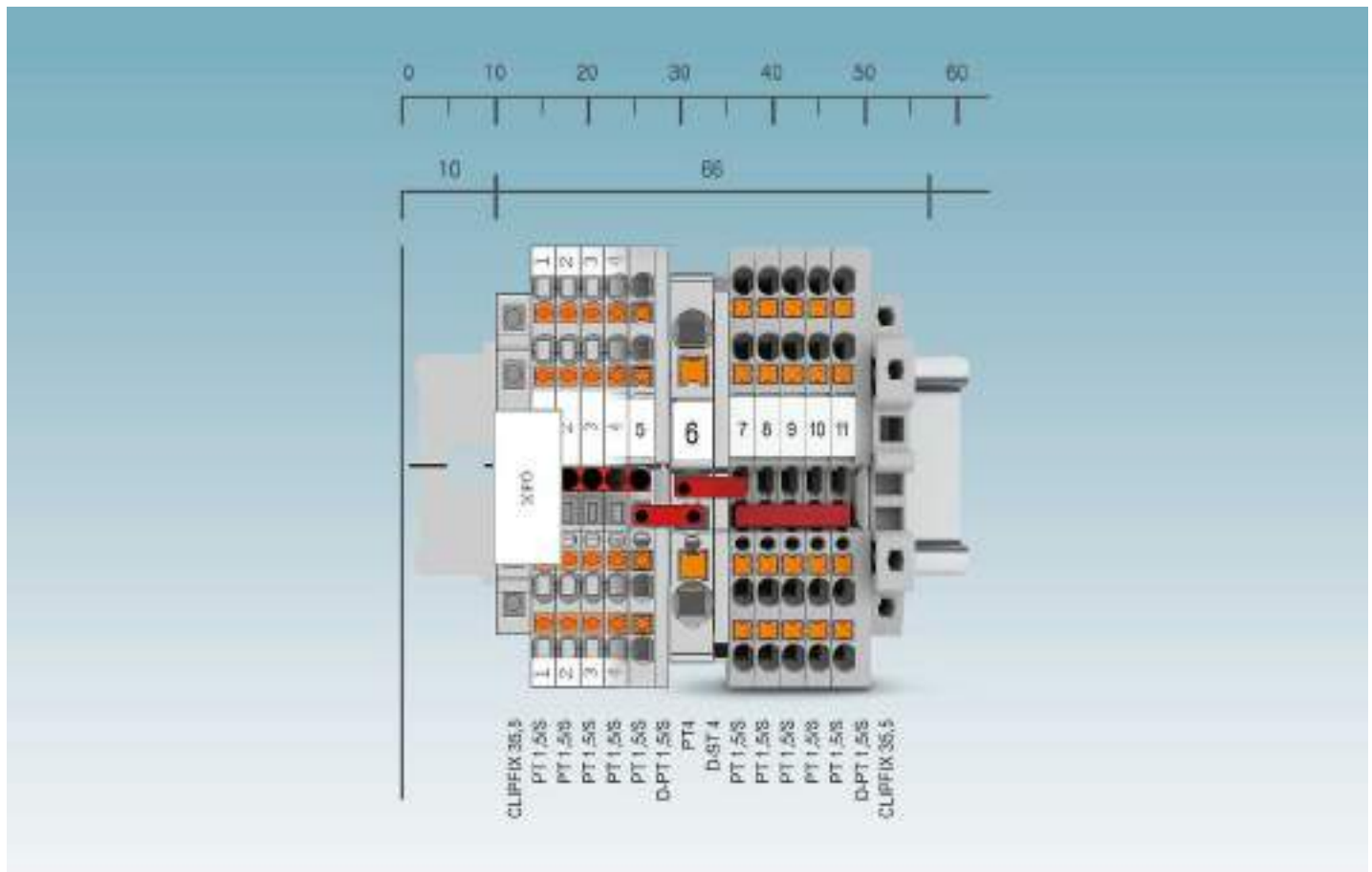
With the Marking Editor, you can also create the required markings directly in the application environment.

All marking materials in the portfolio can also be ordered as customer-specific printed versions. Within no time at all, you will receive high-quality marking solutions, printed according to your individual requirements.

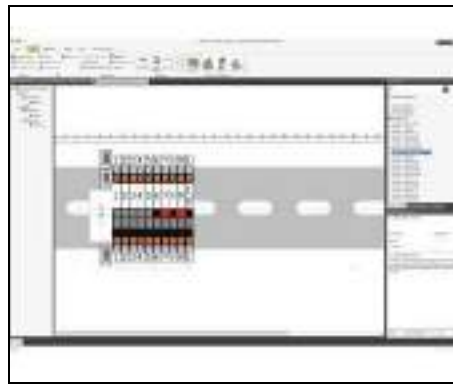
PROJECT complete planning and marking software	18
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Marking and labeling – MARKING system

Planning and marking software, MARKING system app, and customer-specific printing service



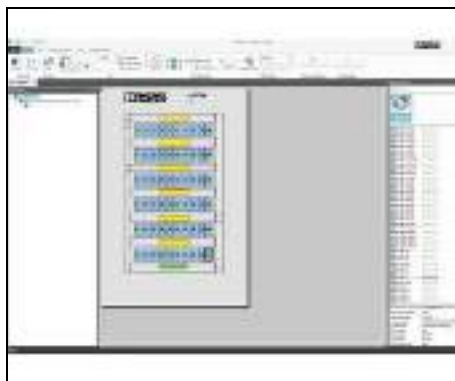
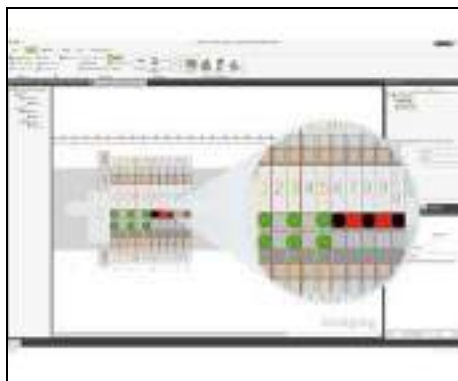
The PROJECT complete planning and marking software supports the entire control cabinet manufacturing process. The program features an intuitive user interface and enables the individual planning, automatic checking, and direct ordering of terminal strips, as well as the easy creation of corresponding markings.



The intuitive functions make PROJECT complete very easy to use. Customize the menu bars according to your individual needs.



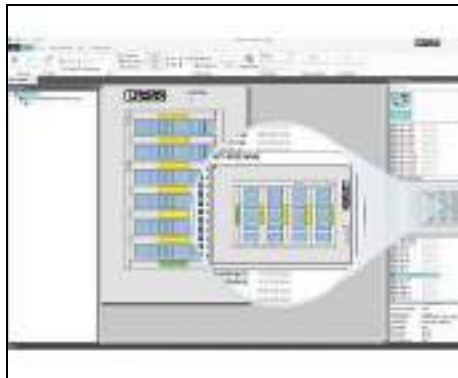
Import projects directly from electrical plans. PROJECT complete includes interfaces to all conventional CAE programs.



PROJECT complete automates many steps and reduces the effort involved. Manually bridging or planning individual markings is no longer necessary.

Create the right markings for your projects with PROJECT complete. The software controls all marking systems from Phoenix Contact.

The intelligent search function in PROJECT complete selects the appropriate material using filters, reliably directing you to the perfect solution for your application.



In the template preview, you can see the breakdown of a material immediately and thus find the right product for your application faster.

Find out more with the web code

Detailed information on these products can be found on our website.

Simply enter # and numbers in the search field.





MARKING system app

The MARKING system app spearheads the digital transformation in industrial identification. It creates real added value for the user. The app features a unique, mobile interface for the smart, networked selection and creation of marking solutions in Industrie 4.0. Conveniently find the right solution using either the structured search assistant or integrated bar code scanner. Among the 3000 marking solutions and eleven different printing systems (subdivided into three marking technologies), almost all users will find the right marking solution for their application. The app is clearly structured and intuitive to use, and also includes a search assistant for marking materials. In addition, the integrated MARKING Application Guide enables the specific selection of marking materials based on the application and environmental requirements. Through specific querying of the desired parameters and control via a user-friendly menu, the Application Guide quickly and intuitively directs you to the perfect marking solution for your application.

The app can also be used offline on mobile end devices. It is therefore available at all times, anywhere in the world. Thanks to the intuitive menu navigation, the app is easy to use and does not require specialist knowledge. The MARKING system app is available for iOS and Android operating systems. The app can be downloaded free of charge from the appropriate app store.



Marking Editor

Thanks to the Marking Editor, you can create the required markings directly in the application environment via tablet PC or smartphone.



Bar code scanner

With the bar code scanner, you can quickly and easily access the technical data for marking material. You can also perform marking directly via the Marking Editor.



Search assistant

With the search assistant, you can carry out a structured, targeted search for suitable marking materials, even without knowledge of this field.



Application Guide

The Application Guide queries the environmental conditions that the marking must be able to withstand. Based on this, it directs you to the appropriate material for your marking requirements.

Find out more with the web code

Detailed information on these products can be found on our website.

Simply enter # and numbers in the search field.





Easy ordering via PROJECT complete

Create customer-specific markings quickly and easily with PROJECT complete and then order them online.



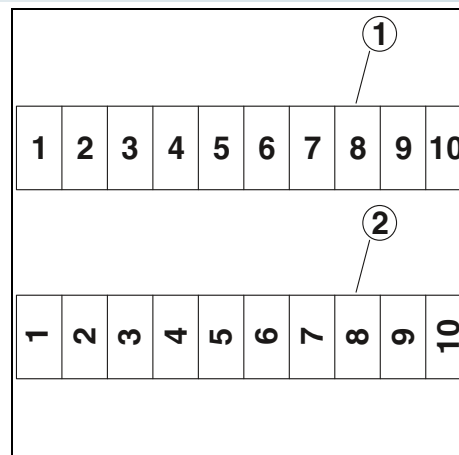
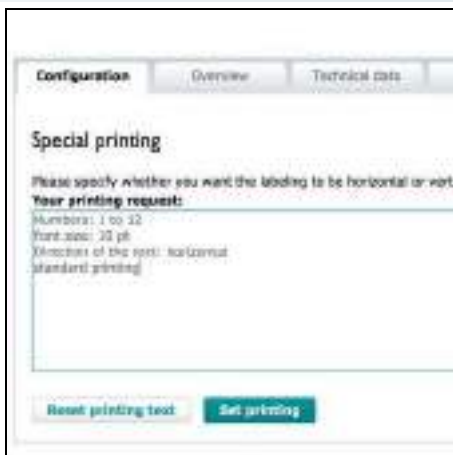
Color printed marking solutions

You can use marking materials in UniCard and UniSheet format as well as metal labels for color printing.



We mark marking materials according to your requirements

All materials which can be marked according to customer requirements are indicated with this symbol. The ordering process is described on the next page.



Ordering special marking, step 1

All marking materials are available on our website. Order your custom marking. Search for the item you want on our website. Choose materials that end with ... CUS.

Ordering special marking, step 2

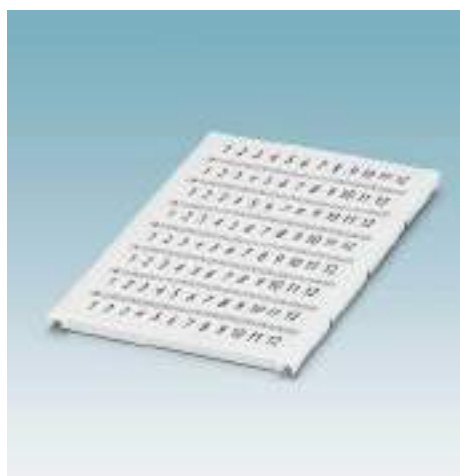
Configuration of the selected CUS item: under the **Configuration** category, you can enter the required marking data in the free text field.

Tasks required:

- Marking text
- Font size
- Read direction “horizontal” (1) or “vertical” (2)
- Normal or bold print
- Please send special characters, symbols, and logos as an image file.

Ordering special marking, step 3

- Zack marker strip (ZB...): 1 strip
- Card material (US...): 1 card
- Plastic sheet (e.g., UC(T)...): 1 sheet
- Sheet material (e.g., BMKL...): 1 sheet
- Rolls (e.g., EML (...x..)R): 1 strip (row)
- Metal labels for the BLUEMARK ID COLOR (e.g., EMP-AL...): 1 label



Individually marked according to customer requirements

You will receive your marking materials, custom-marked according to the marking requirements you have provided, as quickly as possible.

Find out more with the web code

Detailed information on these products can be found on our website.

Simply enter # and numbers in the search field.

#0289

Search





Marking systems – MARKING system

The right printing system for every application

The TOPMARK NEO laser marking system marks materials for use in industrial applications permanently, making them highly resistant. Easy handling is possible, without special knowledge of laser technology. The BLUEMARK ID high-speed printers with innovative UV LED technology quickly and easily print materials in UniCard and US format as well as aluminum markers – in color as well.

The printers in the THERMOMARK series are renowned for their proven maintenance-free thermal transfer printing method and maximum user-friendliness.

The THERMOMARK PRIME is equipped with integrated marking software, an independent energy supply, and a user interface with intuitive operation. As a result, the card printer is ideally designed for mobile use.

The easy-to-operate THERMOMARK CARD 2.0 is installed in no time at all. It prints plastic labels in UniCard and UniSheet format, quickly and with high-quality results.

Marking labels and shrink sleeves in roll and continuous formats is straightforward and reliable with the THERMOMARK ROLL 2.0.

The THERMOMARK ROLLMASTER 300 and 600 robust industrial printers are both ideal for marking large print volumes.

With its 600 dpi print resolution, the THERMOMARK ROLLMASTER 600 is particularly suitable for printing high-resolution and small bar codes or 2D bar codes, small characters, symbols or graphics.

The THERMOMARK W2 enables double-sided marking of shrink sleeves, which significantly improve the legibility of the wire markings.

The robust THERMOFOX handheld printer is ideally suited to fast marking right on site. It processes continuous media for terminal marking, wire and cable marking, equipment marking, and plant marking

Product range overview

Which printer prints which marking

Overview of marking material and printers	28
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TOPMARK NEO	32
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THERMOMARK PRIME	34
THERMOMARK CARD 2.0	35
THERMOMARK ROLL 2.0	40
THERMOMARK ROLLMASTER	41
THERMOMARK W2	42
THERMOFOX	43
PLOTMARK	50
ENGRAVING UNIT	51



The BLUEMARK ID printing systems use the latest UV LED technology for marking, including CMYK multicolor printing. This makes the materials instantly wipe-resistant and ready for immediate use. The printing systems do not need time to warm up, they are environmentally friendly, and also very quiet.



The TOPMARK NEO marking system enables you to flexibly implement the requirements of challenging marking applications. With modern laser technology, you can create permanent, durable markings with ease. Preset parameters mean you don't need special knowledge of laser technology.



The THERMOMARK PRIME is ideal for mobile use with its integrated marking software, independent energy supply, and intuitive user interface. The automatic ink ribbon, magazine, and material detection also make operation much easier.



The THERMOMARK CARD 2.0 thermal transfer printer prints marking materials in card format. It offers you an easy way of producing terminal, wire, cable, and equipment markings of impressively high quality.



The THERMOMARK ROLL 2.0 thermal transfer printer processes material off the roll and continuous media. You can easily create high-quality printed labels, markers, and shrink sleeves.



The THERMOMARK ROLLMASTER is particularly suitable for marking large print volumes, either with 300 or 600 dpi for high print resolutions for bar codes or 2D printers.



The THERMOMARK W2 prints and perforates WMS continuous shrink sleeves on both sides. This double-sided printing ensures optimum legibility on conductors and cables. Easy loading of the sleeve is ensured, thanks to the special design of the guide elements.



The THERMOFOX handheld printer is ideally suited to fast marking right on site. The thermal transfer printer is robust, easy to use, and offers versatile functions. It processes continuous media for terminal, wire, cable, equipment, and plant marking.



The PLOTMARK also marks sheet material, in addition to strips and UniCard materials. The integrated pen station prevents the plotter pens from drying out. The PLOTMARK can be converted into an engraving unit quickly and easily by swapping the plotter head for the engraving device.

Marking and labeling – MARKING system

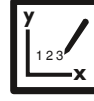
Marking systems

Overview
Marking system –
Marking material –
Matrix



Marking system	TOPMARK NEO	BLUEMARK ID BLUEMARK ID COLOR	THERMOMARK CARD 2.0 THERMOMARK PRIME	THERMOMARK ROLL 2.0
Terminal marking				
UC...-TM...		Page 110		
UCT...-TM...	Page 132	Page 132	Page 132	
UM...-TM...		Page 168	Page 168	
US-TM...		Page 136	Page 136	
US-TMF...		Page 137	Page 137	
US-TML...		Page 138	Page 138	
ZB...				
ZBF...				
TMT...				Page 140
TML...				Page 144
SK...				Page 148
MM-TML...				
MM-TMT...				

Wire/cable marking				
LS-WMTB...	Page 189			
WMTB-AL...		Page 192		
AI-WM...		Page 201		
UC-WMT...		Page 202		
UC-WMTB(A)...		Page 204		
UC-WMC(O)...		Page 194		
UCT-WMT...	Page 206	Page 206	Page 206	
UCT-WMTB(A)...	Page 210	Page 210	Page 210	
UCT-WMCO...	Page 209	Page 209	Page 209	
UCT-WMS...	Page 208	Page 208	Page 208	
US-WMT...		Page 212	Page 212	
US-WMTB...		Page 214	Page 214	
US-WML...		Page 215	Page 215	
WML-RFID/HF...				
WML.../WML HF... /WML-FLAG...				Page 217
WMS... (HF) (pre-assembled)				Page 224
WMS... (HF) (continuous shrink sleeve)				Page 226
WMS... OT-HF (continuous marking sleeve)				Page 228
EMT...				Page 229
WMT...				Page 230
WMTB...(HF)				Page 231
MM-WMS... + MM-WMS-2...				
MM-WML...				
MM-EMT...				


**THERMOMARK
ROLLMASTER 300/600**
THERMOMARK W2
THERMOFOX
PLOTMARK
ENGRAVING UNIT

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Marking and labeling – MARKING system

Marking systems

Overview

Marking system –
Marking material –
Matrix



Marking system	TOPMARK NEO	BLUEMARK ID BLUEMARK ID COLOR	THERMOMARK CARD 2.0 THERMOMARK PRIME	THERMOMARK ROLL 2.0
Equipment marking				
LS-EM...	Page 282			
EM...AL...		Page 296		
UC-EM...		Page 303		
UC-EMP...		Page 301		
UC-EMLP...(EX)		Page 298		
UC-EMSP...		Page 300		
UCT-EM(P)...	Page 306	Page 306	Page 306	
US-EMP...		Page 317	Page 317	
US-EMLP...(HA)		Page 314	Page 314	
US-EMLSP...		Page 320	Page 320	
US-EMSP...		Page 319	Page 319	
US-EML...		Page 322	Page 322	
US-EMLF...		Page 323	Page 323	
EMT...				Page 342
EML-D				Page 324
EMLP...				Page 328
EMLF...				Page 332
EMLC...				Page 333
EMLS...				Page 339
EML-HA...				Page 334
EML-HT...				Page 335
EML-ESD...				Page 336
EML-RM...				Page 337
GPE...				
BMK...				
BMKL...				
MM-EMLC.../MM-EML.../				
MM-EMLF...				
Plant marking				
UC-PM(L)P...		Page 360		
PM(L)P-RFID/...		Page 358		
US-PML-W...		Page 366	Page 366	
US-PML-P...		Page 367	Page 367	
US-PML-M...			Page 368	
US-PML-GHS...		Page 371	Page 371	
US-EMLF...		Page 323	Page 323	
PML-W....				Page 375
PML-P...				Page 372
PML-M...				Page 373
PML-GHS...				Page 374
PML-T...				Page 378
PMM...				Page 385
MM-EML.../MM-EMLF...				



ENGRAVING UNIT

[illegible]

Marking systems

TOPMARK NEO, desktop laser marker including extraction unit



Direct laser marking



new

Integration into the PROJECT complete planning and marking software makes the TOPMARK NEO the fastest desktop laser marker in its class – and the easiest to use. You can now mark all materials, without special knowledge of laser technology.

- Wide range of materials comprising stainless steel, aluminum, ABS, polyacrylics, and polycarbonate
- Preset optimized laser parameters are available for all material types
- Thanks to automatic material detection of UCT cards and LS materials, marking is fast and effective
- The laser marker can also be used via the multicolor touch display without marking software
- Permanent markings are created by engraving, annealing or carbonizing the material

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Marking method	
Laser system	
Laser class	
Interfaces	
Power supply	[V]
Weight	[kg]
Operating system	
Power consumption	[W]
CW laser power (continuous wave)	[W]

Technical data		
Width	Length	Height
580	485	615
5 ... 35		
Direct laser marking		
Ytterbium fiber laser, pulsed, 1064 nm		
Laser class 1 according to EN 60825-1 classification		
Ethernet 10/100 Mbps, dynamic IP/RS-232/USB host for USB stick		

Description	Color
Laser marker , incl. operating instructions, LAN cable, type E and F power cable, and LS adapter plate	
Laser marker , incl. operating instructions, LAN cable, type E and F power cable, LS adapter plate, and extraction unit	

Ordering data		
Type	Order No.	Pcs./Pkt.
TOPMARK NEO	1012015	1
TOPMARK NEO SET	1012018	1

Extraction unit , 100 V ... 240 V, incl. filter equipment, suction tube, crevice nozzle set, type E and F power cable, D-SUB cable, and operating instructions	
Prefilter , for replacement	
HEPA filter , for replacement	
Activated carbon filter , for replacement	
Suction tube , for replacement, length: 2.5 m	
Cleaning nozzle , for plugging onto the suction tube of the extraction unit.	
Adapter plate , for LS materials, for TOPMARK NEO	
Carrying handles for carrying the laser marker more easily	
Bypass plug , D-SUB plug, 25-pos. for simulating an extraction unit	

Accessories		
TMN-EXTRACTION	1012102	1
TMN-PRE FILTER	1012100	1
TOPMARK LASER HEPA FILTER	0803305	1
TOPMARK LASER CARBON FILTER	0803306	1
TMN-EXTRACTION HOSE	1012101	1
TOPMARK LASER CLEANING NOZZLE	0803310	1
TMN-ADAPTER PLATE-LS	1012104	1
TMN-HANDLE SET	1012105	1
TMN-BP	1012081	1



BLUEMARK ID printing systems

new



UV LED technology



The BLUEMARK ID printing systems are the all-in-one solution for industrial identification. In addition to the BLUEMARK ID for monochrome printing, the BLUEMARK ID COLOR system also prints CMYK multicolor markings. Both printing systems are characterized by:

- Intuitive operation, the integrated marking software supports the entire printing process via an intuitive 7" graphical user interface
- Maximum speed, automatic material feed-in and a de-stacking function enable over 15,000 markers to be processed per hour. The use of several magazines speeds up large-batch processing
- Flexible material loading, additional front feed-in is integrated along with magazine insertion. This enables the flexible printing of individual UC/UCT sheets, metal labels, and US cards
- Material selection, over 1300 materials for industrial identification are available for both printing systems

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Marking method	-
Volume	23 ml
Pressure capacity	-
Interfaces	10/100 Mbps Ethernet / 1x USB 2.0 Device, 1x USB 2.0 Host
Power supply	[V]
Weight	[kg]
Operating system	MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit), MS Windows 8.1 (32/64-bit), MS Windows 10 (32/64-bit)
Power consumption	[W]
CW laser power (continuous wave)	[W]

Technical data		
Width	Length	Height
523	675	340
5 ... 35		
-		
23 ml		
-		
10/100 Mbps Ethernet / 1x USB 2.0 Device, 1x USB 2.0 Host		
100 ... 240		
21		
MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit), MS Windows 8.1 (32/64-bit), MS Windows 10 (32/64-bit)		
-		
-		

Description	Color
Color printer with solvent-free UV LED technology , with integrated "MARKING system app" marking software on board, 7" color touch display, incl. power cable, USB cable, for printing US cards, plastic labels in UC, UCT, and UM format, and metal labels	
Monochrome printer with solvent-free UV LED technology , with integrated "MARKING system app" marking software on board, 7" color touch display, incl. power cable, support CD containing multilingual user manuals, links to firmware, drivers, and planning and marking software, for printing US cards, plastic labels in UC, UCT, and UM format, and metal labels	

Ordering data		
Type	Order No.	Pcs./Pkt.
BLUEMARK ID COLOR	1002329	1
BLUEMARK ID	1003334	1

Infeed magazine for accommodating max. 20 UniCard sheets for accommodating max. 40 UniCard sheets Adapter plate for BLUEMARK ID, for accommodating US materials
Transport case , with aluminum edges, for printer and accessories
UV fluid, for replacement , 23 ml, color: black cyan magenta yellow Dummy cartridge for transportation, color: black cyan magenta yellow Cleaning cartridge , for replacement
Original packaging for transportation

Accessories		
BM ID-MAG20 BM ID-MAG40	1044356 1044357	1 1
BM ID-ADAPTER PLATE-US	1044355	1
BM ID CASE	1049953	1
BM ID-CARTR. BK BM ID-CARTR. CY BM ID-CARTR. MA BM ID-CARTR. YE	1044345 1044346 1044347 1044348	1 1 1 1
BM ID-DUMMY CARTR. BK BM ID-DUMMY CARTR. CY BM ID-DUMMY CARTR. MA BM ID-DUMMY CARTR. YE	1044351 1044352 1044353 1044354	1 1 1 1
BM ID-CLEANING CARTR.	1044350	1
BM ID-CARDBOARD BOX	1044361	1

THERMOMARK PRIME



Thermal transfer

- The THERMOMARK PRIME is the thermal transfer printer for mobile or stationary use
- With the integrated MARKING system app software, printing data is created on site
- Easy and intuitive operation via 7" touch color display
- Replaceable battery pack ensures cable-free use for many hours
- The connection to PROJECT complete enables the convenient processing of large marking projects
- Prints on plastic labels in UCT, US, and UM format

Notes:

Additional ink ribbons can be found in our online shop at phoenixcontact.net/products.



Mobile thermal transfer printer with integrated marking software

ERC

Technical data

Dimensions		Width	Length	Height
		380	292	122
General data				
Temperature range	[°C]	5 ... 35		
Print resolution	[dpi]	300 dpi		
Max. print width	[mm]	104		
Interfaces		10/100 Mbps Ethernet / USB 2.0		
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz		
Weight	[kg]	6		
Operating system		MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit), MS Windows 8.1 (32/64-bit), MS Windows 10 (32/64-bit), Server 2008, Server 2008 R2, Server 2012, Server 2012 R2		

Ordering data

Type	Order No.	Pcs./Pkt.
Thermal transfer printer for mobile or stationary use, with integrated "MARKING system app" marking software on board, 7 inch color touch display, and replaceable battery pack. It can be linked to CLIP PROJECT.		
For printing on plastic labels in UCT, US, and UM format	gray	
THERMOMARK PRIME	5148888	1

Accessories

Charger for the battery pack, power is supplied via the THERMOMARK PRIME's standard power supply unit or using the vehicle charging cable via the 12 V or 24 V connection		
Spare charging cable for the charger when using a 12 V connection in the vehicle		
Spare battery pack, (NiMH) 18 V DC, 2.1 Ah		
Battery compartment cover, dummy battery pack closes the battery tab on the printer		
Replacement power supply unit, input voltage of 100 V AC ... 240 V AC / 1.5 A / 50 Hz ... 60 Hz, output voltage: 24 V DC / 4.16 A		
Bag for the THERMOMARK PRIME (5148888), material and accessories not included		
Backpack for the THERMOMARK PRIME (5148888), the THERMOFOX (0803984), material and accessories not included		
Transport case with aluminum edges for the THERMOMARK PRIME (5148888), material and accessories not included		
Ink ribbon cassette for THERMOMARK PRIME, ink color: black, length: 70 m, width: 110 mm	black	
Ink ribbon cassette for THERMOMARK PRIME, ink color: white, length: 60 m, width: 110 mm	white	
TMP/CHARGER	0803670	1
TMP/CHARGER CABLE VEHICLE 12V	0803671	1
TMP/ACCU	0803668	1
TMP/ACCU COVER	0803669	1
TMP/EXT.POWER-SUPPLY 100-240V	0803672	1
TMP BAG	0803674	1
MOBILE BACKPACK	0803717	1
TMP CASE	0803675	1
TMP-RIBBON 110 BK 100	0803374	1
TMP-RIBBON 110 WH 100	0803376	1

THERMOMARK CARD 2.0, thermal transfer printer for sheet and card material



Thermal transfer printer
for sheet and card material

- The THERMOMARK CARD 2.0 prints markers supplied in card format for cable, equipment, and plant marking applications
- For all UniCard (UCT) and UniSheet (US) materials
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast marking. Printing time for one UniCard: just 8 seconds
- Easy and intuitive operation via touch color display
- USB and Ethernet connections
- Easy control via the PROJECT complete software

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Print resolution	[dpi]
Max. print width	[mm]
Interfaces	
Power supply	[V]
Weight	[kg]
Operating system	

Technical data		
Width	Length	Height
380	320	189
5 ... 35		
-		
104		
10/100 Mbps Ethernet / USB 2.0		
-		
6		
MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit), MS Windows 8.1 (32/64-bit), MS Windows 10 (32/64-bit), Server 2008, Server 2008 R2, Server 2012, Server 2012 R2		

Description	Color
Thermal transfer printer for card material, incl. European power cable, US power cable, USB cable, operating instructions in German, English in printed format, magazine for UCT-TM materials, magazine for US materials, one UCT-TM 6 unit pack, one US-EMLP (85,6x54) (85,6x54) unit pack, one ink ribbon (50 m sample roll)	

Ordering data		
Type	Order No.	Pcs./Pkt.
THERMOMARK CARD 2.0	1085267	1

Transport case
Trolley for TL-CASE transport case
Cleaning stick
Ink ribbon for THERMOMARK CARD..., ink color: black, length: 300 m, width: 110 mm
Ink ribbon for roll printer and THERMOMARK CARD, ink color: white, length: 240 m, width: 110 mm
Ink ribbon for roll printer and THERMOMARK CARD, ink color: white, length: 60 m, width: 110 mm

Accessories		
TL CASE	0800613	1
TL CASE TROLLEY	0803337	1
CLEANING STICK	5146697	5
THERMOMARK-RIBBON 110-TC	0801371	1
TM-RIBBON 110-TC/TR WH	1014402	1
TM-RIBBON 110 WH 100	0804661	1

Marking systems

Magazines for THERMOMARK CARD and THERMOMARK PRIME



Thermal transfer



Magazines for UniCard marking materials

- Robust magazines for UniSheet and UniCard marking material
- The format automatically ensures printing with a high degree of positioning accuracy
- Marking sheets that have already been started and have full rows remaining can continue to be used
- A bar code affixed laterally to the magazine enables the THERMOMARK PRIME to identify the magazine. This prevents printing errors caused by using the wrong magazines

Description
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-TM..., UCT1(U)-TM..., UCT5-TM..., UCT-EM (5x10), UCT-EM (6x10)
for accommodating UCT-TMF... Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-WMS...
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT1-TMF... for accommodating UCT2-TM... for accommodating UCT3-TM...
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-WMT..., UCT-EM (7x10)
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (20x7), UCT-EM (17,5x8) for accommodating UCT-EM (12x3,3), UCT-EM (12x6) for accommodating UCT-EM (30x5) for accommodating UCT-EM (17x10)
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (10x8) for accommodating UCT-EM (10x5) for accommodating UCT-EM (17x8), UCT-EM (21x8) for accommodating UCT-EM (20x9)
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (17x9) for accommodating UCT-EM (18x8) for accommodating UCT-EM (17,5x7,5) for accommodating UCT-EM (15x10)
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (10x7), UCT-WMTB (29x8) for accommodating UCT-EM (20x8) for accommodating UCT-EM (17,5x9)
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT6M-TM... for accommodating UCT6R-TM...

Ordering data		
Type	Order No.	Pcs./Pkt.
TMP-UCT-MAG1	0803342	1
TMP-UCT-MAG2	0803343	1
TMP-UCT-MAG3	0803344	1
TMP-UCT-MAG4	0803345	1
TMP-UCT-MAG5	0803347	1
TMP-UCT-MAG6	0803348	1
TMP-UCT-MAG7	0803349	1
TMP-UCT-MAG8	0803350	1
TMP-UCT-MAG9	0803351	1
TMP-UCT-MAG10	0803352	1
TMP-UCT-MAG11	0803353	1
TMP-UCT-MAG12	0803354	1
TMP-UCT-MAG13	0803355	1
TMP-UCT-MAG14	0803356	1
TMP-UCT-MAG15	0803357	1
TMP-UCT-MAG16	0803358	1
TMP-UCT-MAG17	0803360	1
TMP-UCT-MAG18	0803361	1
TMP-UCT-MAG19	0803363	1
TMP-UCT-MAG20	0803364	1
TMP-UCT-MAG21	0803365	1
TMP-UCT-MAG22	0803366	1
TMP-UCT-MAG23	0803367	1
TMP-UCT-MAG24	0803368	1

Magazines for THERMOMARK CARD and THERMOMARK PRIME



Thermal transfer



Magazines for UniCard marking materials

- Robust magazines for UniSheet and UniCard marking material
- The format automatically ensures printing with a high degree of positioning accuracy
- Marking sheets that have already been started and have full rows remaining can continue to be used
- A bar code affixed laterally to the magazine enables the THERMOMARK PRIME to identify the magazine. This prevents printing errors caused by using the wrong magazines

Description	Ordering data		
	Type	Order No.	Pcs./Pkt.
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating: UCT-WMCO...(12x4)	TMP-UCT-MAG25	0803369	1
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EMP ...	TMP-UCT-MAG26	0803370	1
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-WMTBA (25x6), UCT-WMTBA (29x8), UCT-WMTBA (40x17)	TMP-UCT-MAG27	0803371	1
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating: UCT-WMCO...(18x4)	TMP-UCT-MAG28	0803372	1
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating: UCT-WMCO...(23xX)	TMP-UCT-MAG29	0803373	1
for accommodating UCT-EM (12x7)	TMP-UCT-MAG30	0804461	1
for accommodating UCT-EMNP (12,5x6), UCT-EMP (35x9)	TMP-UCT-MAG31	1025505	1
for accommodating UCT4-EM(L)P...	TMP-UCT-MAG32	1082129	1
for accommodating UCT-EM (12x8)P.	TMP-UCT-MAG33	1082130	1

Marking systems

Magazines for THERMOMARK CARD and THERMOMARK PRIME



Thermal transfer



Magazine for UniSheet marking materials

- Robust magazines for UniSheet and UniCard marking material
- The format automatically ensures printing with a high degree of positioning accuracy
- Marking sheets that have already been started and have full rows remaining can continue to be used
- A bar code affixed laterally to the magazine enables the THERMOMARK PRIME to identify the magazine. This prevents printing errors caused by using the wrong magazines

Description
Magazine for THERMOMARK CARD and THERMOMARK PRIME
for accommodating all US materials

Ordering data		
Type	Order No.	Pcs./Pkt.
TMP-US-MAG1	0803341	1

Magazines for THERMOMARK CARD and THERMOMARK PRIME



Thermal transfer for sheets and cards



Magazine for UM marking materials

- Robust magazine for universal material
- One magazine accommodates up to four double strips
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- Marking strips that have already been started and have full rows remaining can continue to be used

Description	Ordering data		
	Type	Order No.	Pcs./Pkt.
Magazine , for THERMOMARK CARD ... and THERMOMARK PRIME for accommodating UM1-TM ..., UM5-TM...	TMP-UM-MAG1	0831200	1
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UM1-TMF ...	TMP-UM-MAG3	0831202	1
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UM1U-TM ...	TMP-UM-MAG4	0831203	1
Magazine , for THERMOMARK CARD ... and THERMOMARK PRIME for accommodating UM2-TM...	TMP-UM-MAG5	0803328	1
Magazine , for THERMOMARK CARD ... and THERMOMARK PRIME for accommodating UM3-TM...	TMP-UM-MAG6	0803329	1
Magazine , for THERMOMARK CARD ... and THERMOMARK PRIME for accommodating UM6M-TM...	TMP-UM-MAG7	0803330	1
Magazine , for THERMOMARK CARD ... and THERMOMARK PRIME for accommodating UM6R-TM...	TMP-UM-MAG8	0803331	1
Magazine , for THERMOMARK CARD ... and THERMOMARK PRIME for accommodating UM8-TM...	TMP-UM-MAG9	0803332	1
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UM7-TM (5x10), UM7-TM (6x10)	TMP-UM-MAG10	0803334	1
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UM7-TM (8x10)	TMP-UM-MAG11	0803681	1

Marking systems

THERMOMARK ROLL 2.0, thermal transfer printer for material off the roll



Thermal transfer for rolls

- The THERMOMARK ROLL 2.0 prints markers supplied in roll format for terminal, wire, cable, and equipment marking applications
- For all labels, shrink sleeves, and marking sleeves
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast marking
- Easy and intuitive operation via touch color display
- USB and Ethernet connections
- Easy control via the PROJECT complete software

Cutting to length or perforating is easy

- Continuous media can be cut or perforated with a high degree of positioning accuracy (see figure below)



Thermal transfer printer for material off the roll

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Print resolution	[dpi]
Max. print width	[mm]
Max. print length	[mm]
Interfaces	
Power supply	[V]
Weight	[kg]
Operating system	

Technical data		
Width	Length	Height
253	320	189
10 ... 35 300 dpi 105 1000 10/100 Mbps Ethernet / USB 2.0 / RS-232 - - MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit), MS Windows 8.1 (32/64-bit), MS Windows 10 (32/64-bit), Server 2008, Server 2008 R2, Server 2012, Server 2012 R2		

Description
Thermal transfer printer for material off the roll , incl. power cable, USB cable, user manual in German, English printed in DIN A5 format, one EML (20x8) roll of labels with 1000 labels, one ink ribbon (50 m)

Ordering data		
Type	Order No.	Pcs./Pkt.
THERMOMARK ROLL 2.0	1085260	1

Cutter , can be retrofitted, for precise cutting of continuous media into required lengths

Cutter , can be retrofitted, for perforating continuous media

External media hub , for roll diameters of 150 mm to 400 mm

Standard pressure roller

Pressure roller , for continuous shrink sleeve

Transport case

Trolley for TL-CASE transport case

Cleaning stick

Ink ribbon for roll printer , ink color: black, length: 300 m, width: 110 mm	black

Ink ribbon for roll printer and THERMOMARK CARD , ink color: white, length: 60 m, width: 110 mm	white

Ink ribbon for roll printer , ink color: black, length: 300 m, width: 110 mm	black

Ink ribbon for roll printer , ink color: black, length: 300 m, width: 110 mm	black

Accessories		
THERMOMARK ROLL-CUTTER	5146422	1
THERMOMARK ROLL-CUTTER/P	5146435	1
THERMOMARK ROLL-ERH	5146448	1
TR-PRESSURE ROLLER STANDARD	0801802	1
TR-PRESSURE ROLLER DR4-50	0801800	1
TL CASE	0800613	1
TL CASE TROLLY	0803337	1
CLEANING STICK	5146697	5
THERMOMARK-RIBBON 110	5145384	1
TM-RIBBON 110 WH 100	0804661	1
THERMOMARK-RIBBON 110-WMTB HF	5148007	1
THERMOMARK-RIBBON 110-WMSU	0801358	1

THERMOMARK ROLLMASTER, thermal transfer printer for material off the roll



Thermal transfer for rolls

The THERMOMARK ROLLMASTER 300 and THERMOMARK ROLLMASTER 600 complete the product range in the field of thermal transfer printers and excel, thanks to:

- High print speed
- Print resolution of 300 dpi
- The printers are ideal for marking large quantities and process all materials in roll format
- Easy and intuitive operation via touch color display
- The easy-to-use centering function for the printing material makes it possible to mark continuous media such as shrink sleeves
- High-quality resin-based ink ribbons ensure a form of marking that is resistant to mechanical and chemical effects
- Continuous media can be cut and perforated with a high degree of positioning accuracy

Notes:

For more ink ribbons, visit our online shop at: phoenixcontact.net/products.



Thermal transfer printer for material off the roll



Technical data

Dimensions				
			Width	Length
			380	460
				Height
				288
General data				
Temperature range	[°C]	10 ... 40		
Print resolution	[dpi]	300 dpi		
Max. print width	[mm]	105		
Max. print length	[mm]	2000		
Interfaces		10/100 Mbps Ethernet / USB 2.0 / RS-232		
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz		
Weight	[kg]	10		
Operating system		MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit), MS Windows 8.1 (32/64-bit), MS Windows 10 (32/64-bit), Server 2008, Server 2008 R2, Server 2012, Server 2012 R2		

Ordering data

Type	Order No.	Pcs./Pkt.
THERMOMARK ROLLMASTER 300	0804501	1
THERMOMARK ROLLMASTER 600	0804663	1

Accessories

Cutting device, for THERMOMARK ROLLMASTER 300 and THERMOMARK ROLLMASTER 600	0804502	1
Perforation device, for THERMOMARK ROLLMASTER 300 and THERMOMARK ROLLMASTER 600	0804503	1
Adapter screw for using the existing THERMOMARK X1.2 CUTTER and THERMOMARK X1.2 CUTTER/P blade	0804653	1
External media hub, for roll diameters of 150 mm to 400 mm	5146448	1
Standard pressure roller	0804655	1
Pressure roller for continuous shrink sleeve	0804656	1
Transport case	0804643	1
Cleaning stick	5146697	5
Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm	5145384	1
Ink ribbon for roll printer and THERMOMARK CARD, ink color: white, length: 60 m, width: 110 mm	0804661	1

Marking systems

THERMOMARK W2, thermal transfer printer for continuous shrink sleeve and continuous marking sleeve



Thermal transfer for rolls



Thermal transfer printer for continuous sleeve materials

The THERMOMARK W2 was specifically developed for double-sided printing and perforation of WMS(-2 HF) ... continuous shrink sleeves and continuous marking sleeves

- The double-sided printing ensures optimum legibility of the marking
- Shrink sleeve rolls can be inserted directly in the device, an external media hub is required for RL and RXL shrink sleeve rolls
- Guide elements ensure easy handling when inserting the sleeve
- The user-friendly interface of the PROJECT complete software enables you to enter custom specifications for the marking and marker length
- Ink ribbons in black and white are available for maximum contrast to the carrier material
- The printed markers can be easily and quickly separated along the perforations

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Print resolution	[dpi]
Max. print width	[mm]
Max. print length	[mm]
Interfaces	
Power supply	[V]
Weight	[kg]
Operating system	

Description	Color
Thermal transfer printer for material off the roll, 300 dpi, specifically for double-sided shrink sleeve printing, incl. perforation cutter, power cable, USB cable, user manual in German, English printed in DIN A4 format	
	gray

External media hub, for roll diameters of 150 mm to 400 mm

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

black
white

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 64 mm

black
white

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

black

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 25 mm

black

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 64 mm

black

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 64 mm

black
white

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 25 mm

black

ERC

Technical data		
Width	Length	Height
780	554	405
10 ... 35		
300 dpi		
105.6		
1000		
Serial (RS-232) / USB 2.0 / 10/100 Mbps Ethernet		
100 ... 240 / 50 Hz ... 60 Hz		
21		
MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit), MS Windows 8.1 (32/64-bit), MS Windows 10 (32/64-bit), Server 2008, Server 2008 R2, Server 2012, Server 2012 R2		

Ordering data		
Type	Order No.	Pcs./Pkt.
THERMOMARK W2	5146147	1

Accessories		
THERMOMARK ROLL-ERH	5146448	1
THERMOMARK-RIBBON 110-WMSU	0801358	1
THERMOMARK-RIBBON 110-WMSU WH	0801359	1
THERMOMARK-RIBBON 64-WMSU	0801360	1
THERMOMARK-RIBBON 64-WMSU WH	0801361	1
THERMOMARK-RIBBON 110-WMTB HF	5148007	1
THERMOMARK-RIBBON 25-WMSU	0803390	1
THERMOMARK-RIBBON 64-WMSE	5145724	1
THERMOMARK-RIBBON 64-WMSU	0801360	1
THERMOMARK-RIBBON 64-WMSU WH	0801361	1
TM-RIBBON 25 BK 102	1053499	1



THERMOFOX



Thermal transfer for rolls



Mobile thermal transfer printer for material off the roll

- Portable thermal transfer printer for material off the roll
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- Printing of self-adhesive labels, non-adhesive marking strips, and shrink sleeves
- The THERMOFOX prints materials in cassette format, which contain the material to be marked and the appropriate ink ribbon.
- Intuitive user guidance, thanks to a well-structured menu and direct input keys
- 8 different bar codes and over 300 symbols are integrated
- Alternative control via the PROJECT complete software

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Print resolution	[dpi]
Max. print width	[mm]
Interfaces	
Power supply	[V]
Weight	[kg]
Operating system	

Description	Color
Portable thermal transfer printer for material off the roll	
with Chinese firmware and Chinese marking	
with Russian firmware and Russian marking	
Portable thermal transfer printer for materials off the roll, with accessories (power supply unit with four interchangeable plugs, battery, USB cable, MM-EMLF (EX18) WH/BK, EMLC (EX18) WH/BK) materials in hard-shell case	
with Chinese firmware and Chinese marking	
with Russian firmware and Russian marking	

Hard-shell case for storing the THERMOFOX printer and accessories
Shoulder bag for transporting the THERMOFOX printer and accessories
Belt clip
Magnetic holder for placing the THERMOFOX printer on metal surfaces, e.g., on the control cabinet
Rechargeable battery for mobile operation of the THERMOFOX printer
Power supply unit for stationary operation of the THERMOFOX printer
Charging cradle for charging the battery (THERMOFOX/ACCU)



Technical data		
Width	Length	Height
98	230	69
5 ... 40		
203 dpi		
24		
USB		
100 ... 240 / 50 Hz ... 60 Hz		
656		
MS Windows 7, MS Windows 8.1, MS Windows 10		

Ordering data		
Type	Order No.	Pcs./Pkt.
THERMOFOX THERMOFOX CN THERMOFOX RU	0803984	1
	0803985	1
	1037760	1
THERMOFOX SET THERMOFOX SET CN THERMOFOX SET RU	0803986	1
	0803987	1
	1037743	1

Accessories		
THERMOFOX/CASE	0805002	1
THERMOFOX/BAG	0805003	1
THERMOFOX/BELT CLIP	0805004	1
THERMOFOX/MAGNET HOLDER	0805008	1
THERMOFOX/ACCU	0805009	1
THERMOFOX/ADAPTER	0805010	1
THERMOFOX/CHARGER	0805012	1

Cassettes for THERMOFOX



- The MM-WMS ... and MM-WMS 2 ... shrink sleeves are suitable for marking prior to wiring and can be shrunk
- MM-WML ... is used for subsequent marking
- Practical material ink ribbon cassette for fast material changeover



Thermal transfer for rolls



Mounting type: slide-on

General data			Technical data		
Can be marked with			THERMOFOX		
Material			Polyolefine		
Temperature range			-55 ... 135		
Wipe resistance			DIN EN 61010-1 (VDE 0411-1)		
Components			Free from silicone, halogen, and cadmium		
Shrink ratio			3:1		
Ordering data			Ordering data		
Description		Color	Type	Order No.	Pcs./Pkt.
Shrink sleeve in cassettes, can be marked with THERMOFOX					
1.0 - 3.2 mm conductor diameter		white	MM-WMS 3,2 (EX5)R C1 WH/BK	0803923	1
1.6 - 4.8 mm conductor diameter		white	MM-WMS 4,8 (EX9)R C1 WH/BK	0803924	1
2.1 - 6.4 mm conductor diameter		white	MM-WMS 6,4 (EX10)R C1 WH/BK	0803925	1
3.2 - 9.5 mm conductor diameter		white	MM-WMS 9,5 (EX16)R C1 WH/BK	0803926	1
Shrink sleeve in cassettes, can be marked with THERMOFOX					
1.6 - 3.2 mm conductor diameter		white			
2.4 - 4.8 mm conductor diameter		white			
3.2 - 6.4 mm conductor diameter		white			
4.8 - 9.5 mm conductor diameter		white			
Cable marker labels in cassettes, can be marked with THERMOFOX					
Up to 3 mm Ø		white			
Up to 5 mm Ø		white			



Mounting type: slide-on



Mounting type: adhesive

Technical data
THERMOFOX
Polyolefine
-55 ... 135
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium
2:1

Ordering data		
Type	Order No.	Pcs./Pkt.
MM-WMS-2 3,2 (EX5)R C1 WH/BK	0803927	1
MM-WMS-2 4,8 (EX9)R C1 WH/BK	0803928	1
MM-WMS-2 6,4 (EX10)R C1 WH/BK	0803929	1
MM-WMS-2 9,5 (EX16)R C1 WH/BK	0803930	1

Technical data
THERMOFOX
Vinyl polymer
-40 ... 80
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and cadmium
-

Ordering data		
Type	Order No.	Pcs./Pkt.
MM-WML 3 (EX10)R C1 WH/BK	0803931	1
MM-WML 5 (EX10)R C1 WH/BK	0803932	1

Cassettes for THERMOFOX



- Insert strips in continuous format
- MM-EMT ... is suitable for assembling KMK plastic cable markers as well as PATO/PATG marking collars
- Practical material ink ribbon cassette for fast material changeover



Thermal transfer for rolls



Mounting type: insertion

Can be marked with
Material
Temperature range
Wipe resistance
Components

[°C]

Technical data		
THERMOFOX		
Polyester		
-5 ... 49		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone, halogen, and cadmium		
Ordering data		
Type	Order No.	Pcs./Pkt.
MM-EMT (EX6)R C1 WH/BK	0803963	1
MM-EMT (EX8)R C1 WH/BK	0803965	1
MM-EMT (EX15)R C1 WH/BK	0803966	1
MM-EMT (EX17)R C1 WH/BK	0803967	1
MM-EMT (EX18)R C1 WH/BK	0803968	1
MM-EMT (EX23)R C1 WH/BK	0803969	1

Description	Color
Insert label in cassettes, can be marked with THERMOFOX	
Lettering field size: continuous x 6 mm	white
Lettering field size: continuous x 8 mm	white
Lettering field size: continuous x 15 mm	white
Lettering field size: continuous x 17 mm	white
Lettering field size: continuous x 18 mm	white
Lettering field size: continuous x 23 mm	white

Cassettes for THERMOFOX

- The MM-EMLC ... and MM-EML ... self-adhesive labels are available as continuous material for equipment marking
- MM-EMLC ... is particularly suitable for applying around edges.
- Practical material ink ribbon cassette for fast material changeover



Mounting type: adhesive



Mounting type: adhesive

		Technical data			Technical data		
Can be marked with		THERMOFOX			THERMOFOX		
Material		PA			Polyester		
Temperature range		0 ... 80			-40 ... 149		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone, halogen, and cadmium			Free from silicone, halogen, and cadmium		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Label, roll, can be marked with: THERMOFOX, mounting type: adhesive, lettering field size: continuous x 10 mm	white	MM-EMLC (EX10)R C1 WH/BK	0803933	1	MM-EML (EX10)R C1 WH/BK	0803970	1
	silver				MM-EML (EX10)R C1 SR/BK	0803974	1
Label, roll, can be marked with: THERMOFOX, mounting type: adhesive, lettering field size: continuous x 12 mm	white	MM-EMLC (EX12)R C1 WH/BK	0803934	1	MM-EML (EX12)R C1 WH/BK	0803971	1
	silver				MM-EML (EX12)R C1 SR/BK	0803975	1
Label, roll, can be marked with: THERMOFOX, mounting type: adhesive, lettering field size: continuous x 18 mm	white	MM-EMLC (EX18)R C1 WH/BK	0803936	1	MM-EML (EX18)R C1 WH/BK	0803972	1
	silver				MM-EML (EX18)R C1 SR/BK	0803976	1
Label, roll, can be marked with: THERMOFOX, mounting type: adhesive, lettering field size: continuous x 24 mm	white				MM-EML (EX24)R C1 WH/BK	0803973	1
	silver				MM-EML (EX24)R C1 SR/BK	0803978	1



Thermal transfer for rolls



Mounting type: adhesive

- The MM-EMLF ... material is suitable for a multitude of applications in the field of plant marking
- Available in six different colors
- Practical material ink ribbon cassette for fast material changeover

Can be marked with
Material
Temperature range
Wipe resistance
Components

[°C]

THERMOFOX
Vinyl polymer
-20 ... 75
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and cadmium

Technical data

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Label , highly flexible, in cassette form, can be marked with: THERMOFOX, lettering field size: continuous x 10 mm				
	blue	MM-EMLF (EX10)R C1 BU/WH	0803945	1
	green	MM-EMLF (EX10)R C1 GN/WH	0803950	1
	orange	MM-EMLF (EX10)R C1 OG/BK	0803955	1
	red	MM-EMLF (EX10)R C1 RD/WH	0803959	1
	white	MM-EMLF (EX10)R C1 WH/BK	0803937	1
	yellow	MM-EMLF (EX10)R C1 YE/BK	0803941	1
Label , highly flexible, in cassette form, can be marked with: THERMOFOX, lettering field size: continuous x 12 mm				
	blue	MM-EMLF (EX12)R C1 BU/WH	0803946	1
	green	MM-EMLF (EX12)R C1 GN/WH	0803952	1
	orange	MM-EMLF (EX12)R C1 OG/BK	0803956	1
	red	MM-EMLF (EX12)R C1 RD/WH	0803960	1
	white	MM-EMLF (EX12)R C1 WH/BK	0803938	1
	yellow	MM-EMLF (EX12)R C1 YE/BK	0803942	1
Label , highly flexible, in cassette form, can be marked with: THERMOFOX, lettering field size: continuous x 18 mm				
	blue	MM-EMLF (EX18)R C1 BU/WH	0803947	1
	green	MM-EMLF (EX18)R C1 GN/WH	0803953	1
	orange	MM-EMLF (EX18)R C1 OG/BK	0803957	1
	red	MM-EMLF (EX18)R C1 RD/WH	0803961	1
	white	MM-EMLF (EX18)R C1 WH/BK	0803939	1
	yellow	MM-EMLF (EX18)R C1 YE/BK	0803943	1
Label , highly flexible, in cassette form, can be marked with: THERMOFOX, lettering field size: continuous x 24 mm				
	blue	MM-EMLF (EX24)R C1 BU/WH	0803949	1
	green	MM-EMLF (EX24)R C1 GN/WH	0803954	1
	orange	MM-EMLF (EX24)R C1 OG/BK	0803958	1
	red	MM-EMLF (EX24)R C1 RD/WH	0803962	1
	white	MM-EMLF (EX24)R C1 WH/BK	0803940	1
	yellow	MM-EMLF (EX24)R C1 YE/BK	0803944	1

Cassettes for THERMOFOX

- The self-adhesive, continuous MM-TML ... label material is suitable for subsequent marking of terminal markers
- The non-adhesive, continuous MM-TMT ... marking strips are snapped into the marker groove of Phoenix Contact terminal blocks
- Practical material ink ribbon cassette for fast material changeover



Mounting type: adhesive



Mounting type: snap-on

Can be marked with
Material
Temperature range
Wipe resistance
Components

[°C]

THERMOFOX
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

THERMOFOX
Polyester
-5 ... 49
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Labels in cassettes, can be marked with THERMOFOX				
Lettering field size: continuous x 4.2 mm Lettering field size: continuous x 6.35 mm	transparent white	MM-TML (EX4,2)R C1 TR/BK	0803979	1
Lettering field size: continuous x 9.5 mm Lettering field size: continuous x 9.5 mm	transparent white	MM-TML (EX9,5)R C1 TR/BK	0803981	1

Technical data

Ordering data

Type	Order No.	Pcs./Pkt.
MM-TMT (EX6,35)R C1 WH/BK	0803982	1
MM-TMT (EX9,5)R C1 WH/BK	0803983	1



Plotter



Marking plotter

- During long periods of non-use, the plotter pens are stored safely in a pen station
- The pens are removed and deposited automatically
- The pen station of the PLOTMARK prevents the plotter pens from drying out
- An automatic marking preparation function ensures optimum marking results right from the first character
- The plotter is controlled via the PROJECT complete software
- The plotter can be connected to the computer quickly and easily via the Centronics or USB interface
- Easily operated with just a few buttons

Dimensions	
	[mm]
General data	
Lettering field size	[mm] 422 x 305 mm
Max. material height	[mm] 10.5
Max. plotting speed	[m/s] 0.04
Interfaces	USB 2.0 / -
Input voltage / frequency	[V] 100 ... 240 / 50 Hz ... 60 Hz
Weight	[kg] 8
Operating system	MS Windows 7, MS Windows 8.1, MS Windows 10

Technical data		
Width	Length	Height
480	690	155

Description	Color
Marking plotter , incl. power supply unit, connecting cable (Centronics and USB), CMS-PEN 0,25 pen, user manual, CLIP PROJECT planning and marking software	silver

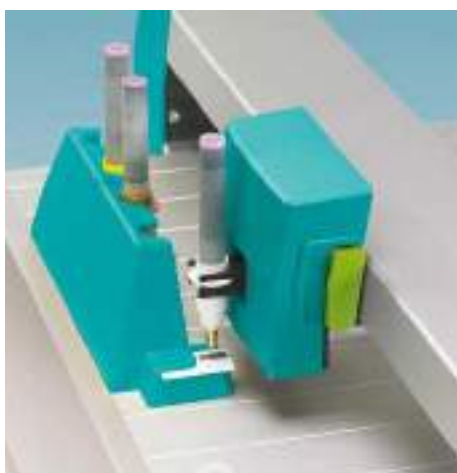
Ordering data		
Type	Order No.	Pcs./Pkt.
PLOTMARK	0804499	1

Pen station seal set , 4 replacement seals for the PLOTMARK pen station and 10 marking preparation plates, incl. assembly tool
Marking preparation plate , for the CMS-P1-PLOTTER and PLOTMARK pen stations

Accessories		
CMS-P1-PENDEPOT	5144835	1
CMS-P1-PREPLATES	5145135	1

Magazines and pens

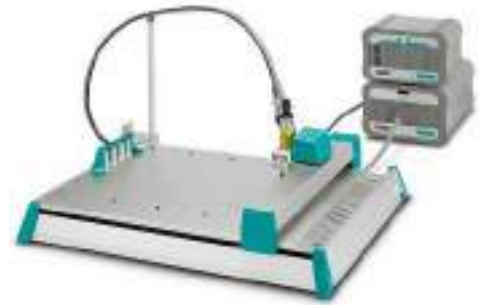
See page 52



ENGRAVING UNIT



Engraving



Engraving unit

- The ENGRAVING UNIT is the ideal marking solution for device and component marking applications subjected to high levels of mechanical and chemical stress
- The PLOTMARK can be converted into an engraving unit quickly and easily by swapping the plotter head for the engraving device
- To allow different line thicknesses, engraving chisels with diameters ranging from 0.2 ... 1.0 mm are available as accessories
- These are supplemented by a comprehensive product range of pre-assembled engraving materials; see page 346.
- These materials remain in position and do not slip when used with the CMS-P1-M/GPE ENGRAVING plotter magazine

Dimensions	
	[mm]
General data	
Power supply	[V]
Weight	[kg]
Speed range	[RPM]
Collet chuck	[mm]
Power consumption	[W]

Technical data		
Width	Length	Height
250	350	

110 ... 240 / 50 Hz ... 60 Hz
8
5000 ... 50000
3
150

Description
Engraving unit , for the PLOTMARK, incl. operating instructions (English/German), data CD, and engraving chisel

Ordering data		
Type	Order No.	Pcs./Pkt.
ENGRAVING UNIT	0804500	1

Engraving chisel, with a point angle of 15°
Point diameter 0.2 mm
Point diameter 0.3 mm
Point diameter 0.5 mm
Point diameter 0.7 mm
Point diameter 1.0 mm
Vacuum cleaner bag , 5 spare bags for replacement

Accessories		
P1 GRAVER 0.2	5145478	1
P1 GRAVER 0.3	5145481	1
P1 GRAVER 0.5	5145504	1
P1 GRAVER 0.7	5145517	1
P1 GRAVER 1.0	5145520	1

Magazine for CMS-P1-PLOTTER and the PLOTMARK , for accommodating EMLP ... and GPE... materials for engraving
- 1 GPE label sheet

P1 ENGRAVING VC BAG	5145559	1
CMS-P1-M/GPE ENGRAVING	5145711	1



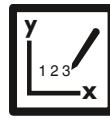


Magazines for marking plotter

- Robust plastic magazines for marking all standard marking materials
- Marking sheets that have already been started and have full rows remaining can continue to be used
- Partial marking is possible
- The plotter capacity is fully utilized, thanks to the size of the magazine
- If you cannot find the right magazine for your materials, please get in touch

		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
Magazine for CMS-P1-PLOTTER and PLOTMARK, for accommodating: UC-TM ..., UC-TMN ..., UC3-TM ..., UC-WMC 1,9..., UC-WMC 3,1..., UC-WMTBA ..., UC-EM (17,5x9), UC-EM (18x8), UC-EM (21x8)				
	gray	P1 UC-MAG 1	5146079	1
for accommodating UC-WMC 4,4...	gray	P1 UC-MAG 2	5146082	1
for accommodating UC-WMC 5,6..., UC-WMC 7,5...	gray	P1 UC-MAG 3	5146095	1
for accommodating UC-TMF..., UC1-TMF..., UC2F-TM..., UC-WMT...	gray	P1 UC-MAG 4	5146105	1
for accommodating UC1-TM..., UC1U-TM..., UC2-TM...	gray	P1 UC-MAG 5	5146118	1
for accommodating: UC-EM..., UC-EMP..., UC-EMLP..., UC-EMSP..., and UC-WMTB...	gray	P1 UC-MAG 6	5146121	1
for accommodating: UC-WMCO ...	gray	P1 UC-MAG 7	5146568	1
Plastic magazines for CMS-P1-PLOTTER and PLOTMARK, for accommodating: - 22 zack marker strips				
		CMS-P1-M/ZB	5144699	1
- 26 flat zack marker strips or ZBN strips		CMS-P1-M/ZBF	5144709	1
- 2 zack marker sheets		CMS-P1-M/ZBM	5144660	1
- 3 flat zack marker sheets		CMS-P1-M/ZBFM	5144686	1
- 22 contactor label zack marker strips		CMS-P1-M/SS-ZB	5144712	1
- 4 to 6 PABA marker bars		CMS-P1-M/PAB	5144741	1
- 30 stud-type ZB strips		CMS-P1-M/BN-ZB	5144725	1
- 1 GPE label sheet		CMS-P1-M/GPE	5144754	1
- 20 strips LBHZ conductor marking		CMS-P1-M/LBHZ	5144738	1
- 1 GPE label sheet		CMS-P1-M/GPE ENGRAVING	5145711	1
Magazine for accommodating sheet material, self-adhesive mat for fixing labels, foils and paper, size of sheet max. DIN A4		CMS-P1-PAD	5144819	1
Accessories				
Adapter plate for WMU magazines, for using the universal CMS-WMU replaceable frame with the magazine inserts of the CMS-MCP 3 plotter		CMS-P1-WMU-ADAPTER	5144822	1
Replacement fixation pad for CMS-P1-M/GPE and CMS-P1-M/GPE ENGRAVING, one fixation pad, sufficient for one magazine		CMS-P1-M/GPE-PAD	5144880	1
Replacement fixation pad for CMS-P1-PAD, 1 fixation pad in DIN A4 format		CMS-P1-PAD/SPARE	5144893	1

Plotter pens



Plotter



Pens for marking plotter

- Plotter pens for high-quality product marking
- Wipe-resistant, high-quality print image
- Both reusable and disposable plotter pens are available

Description	Color
Disposable plotter pen , non-refillable plotter pen, with pen station, completely filled with 1 ml CMS-INK-TR-C 5 ink, for the highest requirements	
Line thickness 0.25 mm	black
Line thickness 0.35 mm	black
Pens , incl. adapters, ink reservoir, and pen station, for different line thicknesses, without ink	
Line thickness 0.25 mm	black
Line thickness 0.35 mm	black
Line thickness 0.50 mm	black

Cleaning set for pens, consisting of: 1 cleaning cup, 2 cartridges, each with 10 ml cleaning fluid and 2 spare sealing caps for the pen station

Cleaning cartridges with spare sealing caps, 2 cartridges, each with 10 ml cleaning fluid and 2 caps

Cleaning fluid, 30 ml

Ink cartridge, for CMS-PEN...

ERC

Ordering data

Type	Order No.	Pcs./Pkt.
CMS-DISPOSABLE-PEN 0,25 TR	5146685	1
CMS-DISPOSABLE-PEN 0,35 TR	5146686	1
CMS-PEN 0,25	5067815	1
CMS-PEN 0,35	5067828	1
CMS-PEN 0,50	5067831	1

Accessories

CMS-R-SET-TR	5146751	1
CMS-R-FLUID-TR-C2	5146752	1
CMS-R-FLUID-TR	5146750	1
CMS-INK-TR-C5	5146684	1



Marking and labeling – MARKING system

Marking systems

Marker pen for plotter and manual marking



- High-quality marking of marking materials, can be performed manually or with the plotter
- Used in conjunction with the P-PEN ADAPTER when combined with plotter
- Disposable pen



Pen for marking plotter

Description	Color
Disposable pen, non-refillable, for manual marking, can be also used for plotter marking when combined with the P-PEN ADAPTER	black
Aluminum adapter, for affixing the P-PEN when plotter marking	

Ordering data		
Type	Order No.	Pcs./Pkt.
P-PEN	0815211	10
Accessories		
P-PEN ADAPTER	0815224	1

Marker pen for manual marking



- High-quality marking of marking materials is even possible without using marking devices
- We provide three versions for manual marking
- Refillable pen: X-PEN
- Disposable pen: B-STIFT
- Disposable pen: P-PEN, can also be used for plotter marking when combined with an adapter



Marker pen for manual marking

Description	Color
Marker pen, refillable, for manual marking, 0.35 mm line thickness, can be refilled with CMS-INK-TR-C 5, supplied without ink	black
Ink cartridge, for CMS-PEN...	black

Ordering data		
Type	Order No.	Pcs./Pkt.
X-PEN 0,35	0811228	1
Accessories		
CMS-INK-TR-C5	5146684	1

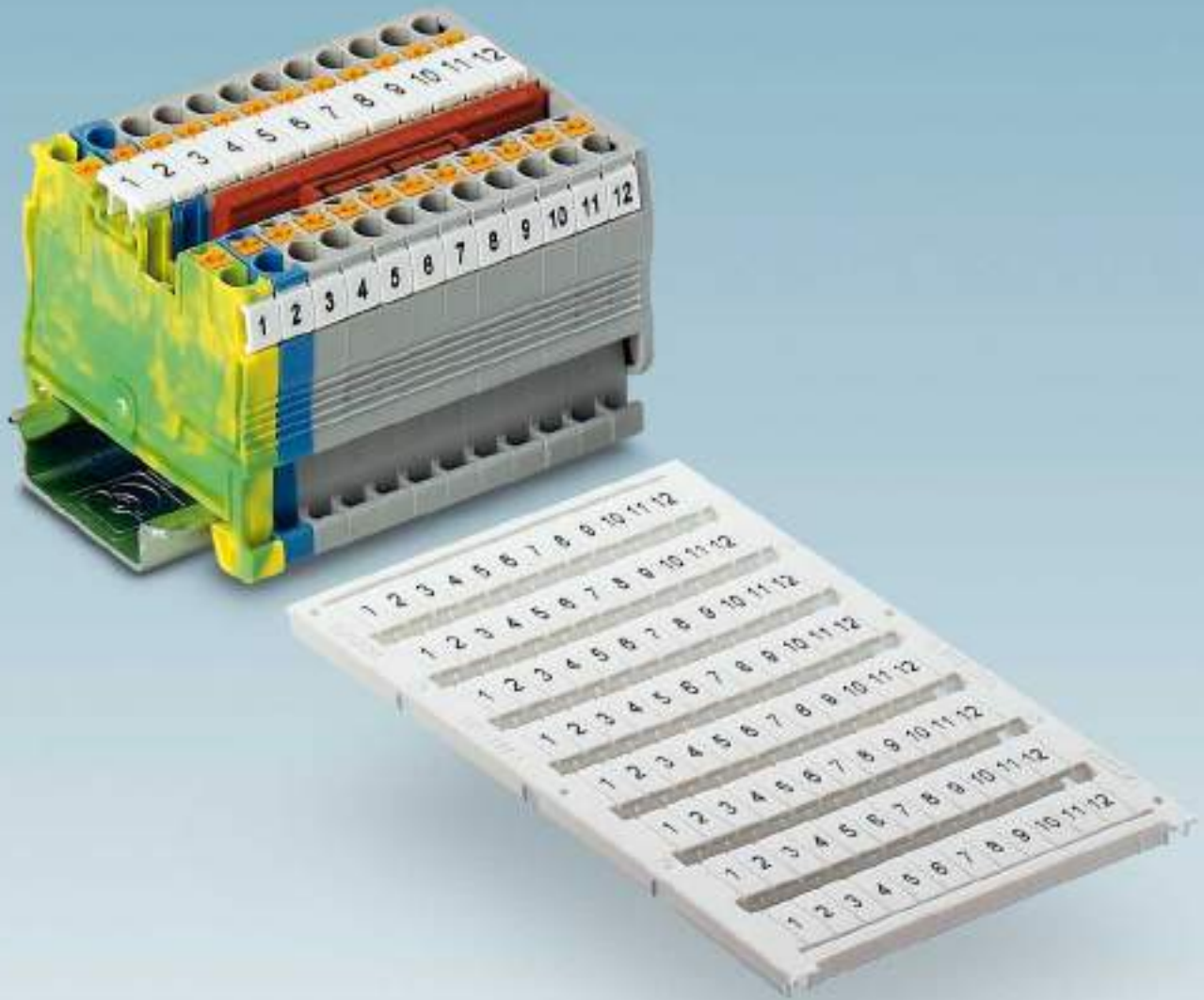
Marker pen for manual marking

- High-quality marking of marking materials is even possible without using marking devices
- We provide three versions for manual marking
- Refillable pen: X-PEN
- Disposable pen: B-STIFT
- Disposable pen: P-PEN, can also be used for plotter marking when combined with an adapter



Marker pen for manual marking

		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
Marker pen, non-refillable, for manual marking, line thickness 0.5 mm	black	B-STIFT	1051993	10



Terminal marking – MARKING system

Large-surface and clear marking of terminal strips is essential for quick and error-free wiring of terminal strips. This is also true for the maintenance and startup of control cabinets and systems.

Terminal markers from Phoenix Contact are optimally tailored to the terminals. They are available marked or unmarked, in sheet, card or roll format.

Product range overview

Terminal marking	58

Overview of terminal marking for Phoenix Contact	60

The right marking solution for every terminal

Overview of terminal marking for other manufacturers	80

Phoenix Contact offers the right marking solution for every terminal

UniCard UC-TM... terminal marking

For tall marker groove	110
For flat marker groove	112

ZB... zack marker strip terminal marking

For tall marker groove	116
For flat marker groove	126

UniCard UCT-TM... terminal marking

For tall marker groove	132
For flat marker groove	134

UniSheet US-TM... terminal marking

For universal marker groove	136
For flat marker groove	137

TMT... terminal marking supplied in rolls

Marker strips for tall and flat marker grooves	140

TML... terminal marking supplied in rolls

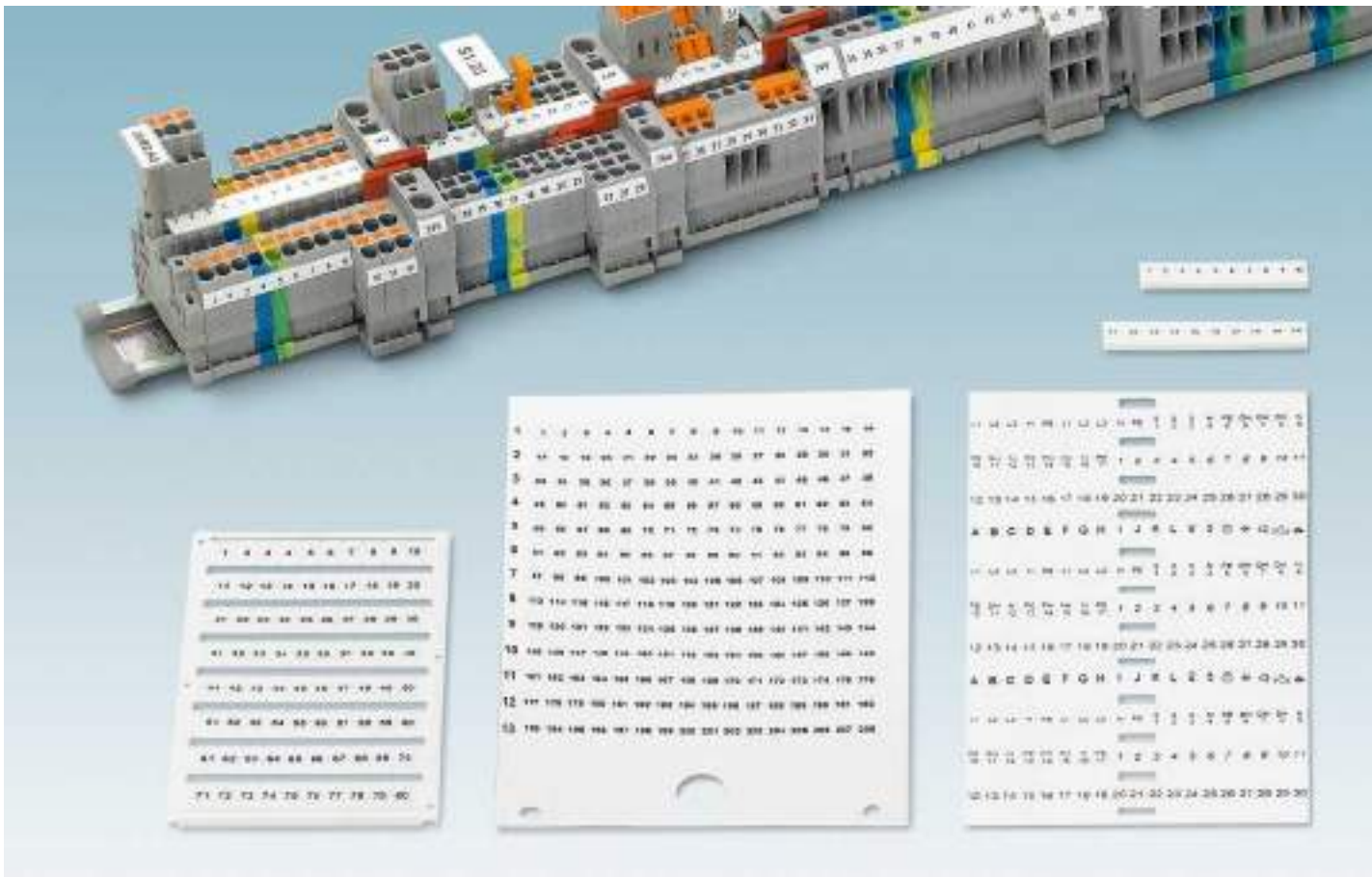
Self-adhesive markers for terminal blocks without marker groove	144

SK... terminal marking supplied as card material

Self-adhesive markers for terminal blocks without marker groove	149

Group marker labels and warning labels	152

Terminal marking for terminal blocks from other manufacturers	156



Clear marking of electrical connecting elements and control cabinet components are requirements which industry must face up to nowadays. As with comprehensive documentation, the precise marking of all terminal points makes it easier to set up and maintain the systems concerned.

EN 60204-1/VDE 0113 Part 1 sets out requirements concerning consistent marking and, therefore, for ensuring that it matches the technical documentation.

A comprehensive product range of different marking materials is available to you for marking Phoenix Contact terminal blocks, as well as those provided by other companies. The marking materials can be easily separated by hand. Their special geometry ensures that the marking remains in place even in the event of impact and vibration in machines and systems.

The combination of printing system and marking material ensures high quality with regard to the appearance, wipe and scratch resistance.

Depending on the application and material for individual marking, the following marking systems can be used:

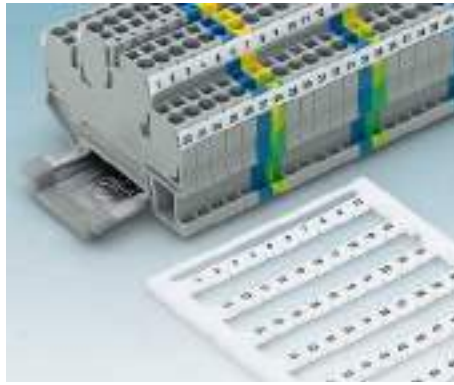
- TOPMARK NEO, laser marker for marking UniCard formats
- BLUEMARK ID and BLUEMARK ID COLOR, high-speed printer with UV LED technology for marking UniCard and UniSheet formats
- THERMOMARK CARD 2.0 and THERMOMARK PRIME, thermal transfer card printer for marking UniSheet and UniCard formats
- THERMOMARK ROLL 2.0, thermal transfer roll printer for marking material off the roll and continuous media
- THERMOMARK ROLLMaster 300 and ROLLMaster 600, industrial thermal transfer roll printer for large printing volumes of rolls and continuous media
- THERMOFOX, thermal transfer printer in handheld format, for marking labels in continuous format
- PLOTMARK, marking plotter for marking UniCard formats and strip formats
- Standard desktop laser printer, for marking material in sheet format

The PROJECT complete software is available for the easy and efficient production of markings. The marking data generated can be imported from CAE systems, Excel or word processing programs using the data exchange manager included in PROJECT complete. In addition to automatic data transfer, there is also the option of manual input. The print files are then automatically forwarded to the corresponding marking systems and processed.

If you do not have the option of creating markings yourself, you can turn to our marking service. We will be happy to handle your printing orders.



Markers are available in UniCard and UniSheet format for marking terminal blocks with a vertical marker groove. They can be supplied unprinted or printed in accordance with customer requirements.



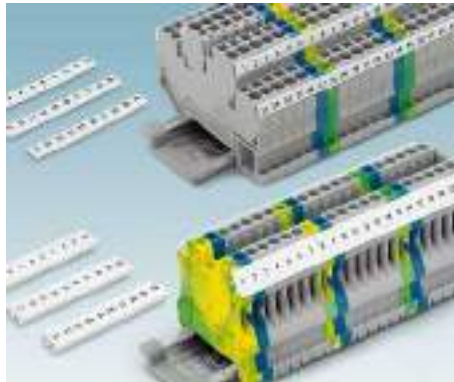
Markers are available in UniCard and UniSheet format for terminal blocks, modules, and connectors with a flat marker groove. They can be supplied unprinted or printed in accordance with customer requirements.



Miniature terminal blocks/transformer terminal blocks have neither a flat nor tall marker groove. Special markers are available in UniCard format for marking these terminal blocks.



The universal marker groove can be marked with markers in UniSheet format. These are available unprinted or printed in accordance with customer requirements.



10-section zack marker strips are available in tall and flat versions. They are used to mark terminal blocks, modules or connectors and can be supplied unprinted or printed.



Unmarked zack marker strips can accommodate printed marker strips. Once printed, the self-adhesive strip is simply stuck onto the zack marker strip.



The marker strips can be used in both tall and flat marker grooves. They can be easily separated by hand since they are pre-perforated for the pitch.



Self-adhesive marker strips can be applied to all PCB terminal blocks and COMBICON connectors. They can be supplied printed on cards or unprinted on a roll.



Markers are available in both UniCard and UniSheet format for marking terminal blocks from other manufacturers.

US-TM 100	
0829255	
TMT...	
100 R	(Ex9,5)R
0816605	0828295
Continuous	

[illegible]

Continuous media, can be shortened to the pitch of the terminal block

Terminal marking for Phoenix Contact



ZBF... see from page 126											
	0829392	0808587	0808642	0808710		0808781	0809997	0809735	0827464		
UC-TMF... see from page 112											
		0818166	0818153	0818140		0818137	0818124	0819233	0819262		US-TMF 100
UCT-TMF... see from page 134											0829260
	0829486	0828742	0828744	0828746		0828748	0829204	0829214	0829218		TMT...
TMT... R... see from page 140											100 R (Ex6,2)R
		0816375	0816430	0816498		0816553	0816210				0816605 0803063
Pitch	3.5	4	5	6	7.62	8	10	12	16		Continuous
Push-in connection terminal blocks					Flat marker groove						
MPT 1,5/S ...	3.5										
MPT 2,5 ...	5										
PT 1,5/S ...	3.5										
PT 1,5/S-3L	3.5										
PT 1,5/S-PE ...	3.5										
PT 2,5 ...	5										
PT 2,5-3L	5										
PT 2,5-PE/L/L	5										
PT 4 ...	6										
PT 4-FSI ...	6										
PT 4-MT ...	6										
PT 4-TG ...	6										
PT...4-HESI ...	6										
PT 6 ...	8										
PT 10 ...	10										
PT 10,3-HESI ...	10.3										
PT 16...TWIN ...	12										
PTB 2,5 ...	5										
PTC 2,5 ...	5										
PTI 2,5 ...	5										
PTI 4 ...	6										
PTI 4-L ...	6										
PTI 4-PE ...	6										
PTI 6 ...	8										
PTIO 1,5/S ...	3.5										
PTIO-IN ...	7										
PTME...4 ...	6										
PTME...6 ...	8										
PTN 2,5 ...	5										
PTN 4 ...	6										
PTN 6 ...	8										
PTPOWER 35 ...	16										
PTPOWER 50 ...	20										

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Continuous media, can be shortened to the pitch of the terminal block

Terminal marking for Phoenix Contact



	ZB ...see from page 116												
	0829414	0805001	1050004	1051003	1054000	1052002	1053001	0812120	0827461				
	UC-TM...see from page 110												
		0818111	0818108	0818085		0818072	0818069	0819194	0819217	US-TM 100			
	UCT-TM... see from page 132										0829255		
	0829484	0828732	0828734	0828736	0828738	0828740	0829142	0829144	0829146	TMT...			
	TMT ...see from page 140										100 R	(Ex9,5)R	
		0816375	0816430	0816498		0816553	0816210			0816605	0828295		
Pitch	3.5	4	5	6	7.62	8	10	12	16	Continuous			
Push-in connection terminal blocks													
Tall marker groove													
PTPOWER 95 ...	25												
PTPOWER 150 ...	31												
PTS 1,5/S ...	3.5												
PTS 2,5 ...	5												
PTTBS 1,5/S ...	3.5												
PTTBS 2,5 ...	5												
PTU 2,5 ...	5												
PTU 4 ...	6												

Terminal marking for Phoenix Contact

		ZBF... (see pages from 126)										
		0829392	0808587	0808642	0808710		0808781	0809997	0809735	0827464		
		UC-TMF...see from page 112										
			0818166	0818153	0818140		0818137	0818124	0819233	0819262		US-TMF 100
		UCT-TMF... see from page 134										0829260
		0829486	0828742	0828744	0828746		0828748	0829204	0829214	0829218		TMT...
		TMT ...R...see from page 140										100 R (Ex6,2)R
			0816375	0816430	0816498		0816553	0816210				0816605 0803063
	Pitch	3.5	4	5	6	7.62	8	10	12	16		Continuous
Push-in connection terminal blocks		Flat marker groove										
PTPOWER 95 ...	25											
PTPOWER 150 ...	31											
PTS 1,5/S ...	3.5											
PTS 2,5 ...	5											
PTT 1,5/S	3.5											
PTT 2,5 ...	5											
PTTB 1,5/S ...	3.5											
PTTB 2,5 ...	5											
PTTB 4 ...	6											
PTTBS 1,5/S ...	3.5											
PTTBS 2,5 ...	5											
PTU 2,5 ...	5											
PTU 4 ...	6											
PTU 4-MT ...	6											
PTU 4-TG ...	6											
PTU...6 ...	8											

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Continuous material can be cut to the pitch of the terminal block

Terminal marking

Terminal marking for Phoenix Contact



		ZB... see from page 116										
		0829414	0805001	1050004	1051003	1054000	1052002	1053001	0812120	0827461		
		UC-TM... see from page 110										
			0818111	0818108	0818085		0818072	0818069	0819194	0819217	US-TM 100	
		UCT-TM... see from page 132									0829255	
		0829484	0828732	0828734	0828736	0828738	0828740	0829142	0829144	0829146	TMT...	
		TMT... see from page 140									100 R	(Ex9,5)R
			0816375	0816430	0816498		0816553	0816210			0816605	0828295
Pitch		3.5	4	5	6	7.62	8	10	12	16	Continuous	
Screw terminal blocks		Tall marker groove										
DFK 4 ...	6											
DFK 5 ...	9.5											
DIK ...1,5 ...	6											
DLK ...	6											
DOK ...1,5 ...	6											
GTF 76	22.5											
HDFK ... 50 ...	18.8											
HDFK ... 95 ...	25											
MBK 6 ...	8											
MBKKB 2,5 ...	5											
MSLKG 6 ...	8											
MTK ...	5											
OTTA 2,5 ...	9											
OTTA 2,5-PE	10											
OTTA 6 ...	11											
OTTA 6-PE	12											
OTTA 25 ...	18											
PIK 4 ...	6											
PIK 6 ...	8											
SLKK 5 ...	6											
SSK 0525 KER-EX	6											
SSK 110 KER-EX	8.4											
SSK 116 KER-EX	10.4											
SSK 135 KER-EX	15.3											
UDK 3 ...	5											
UDK 4 ...	6											
UDMTK 5 ...	6											
UGSK ...	8											
UHK 4 ...	6											
UHSK/S 2000 ...	10											

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Continuous media, can be shortened to the pitch of the terminal block

Terminal marking for Phoenix Contact

	ZBF... see from page 126												
	0829392	0808587	0808642	0808710		0808781	0809997	0809735	0827464				
	UC-TMF... see from page 112												
		0818166	0818153	0818140		0818137	0818124	0819233	0819262	US-TMF 100			
	UCT-TMF... see from page 134										0829260		
	0829486	0828742	0828744	0828746		0828748	0829204	0829214	0829218	TMT...			
	TMT... R... see from page 140										100 R	(Ex6,2)R	
	0816375	0816430	0816498		0816553	0816210			0816605	0803063			
Pitch	3.5	4	5	6	7.62	8	10	12	16	Continuous			
Screw terminal blocks												Flat marker groove	
DFK 4 ...	6												
DFK 5 ...	9.5												
DIK ...1,5 ...	6												
DLK ...	6												
DOK ... 1,5 ...	6												
GTF 76	22.5												
HDFK ... 50 ...	18.8												
HDFK ... 95 ...	25												
MBK 6 ...	8												
MBKKB 2,5 ...	5												
MSLKG 6 ...	8												
MT 1,5 ...	4												
MTK ...	5												
MTTB 1,5 ...	4												
MUT 2,5 ...	5												
MUT 4 ...	6												
OTTA 2,5 ...	9												
OTTA 2,5-PE	10												
OTTA 6 ...	11												
OTTA 6-PE	12												
OTTA 25 ...	18												
PIK 4 ...	6												
PIK 6 ...	8												
SLKK 5 ...	6												
SSK 0525 KER-EX	6												
SSK 110 KER-EX	8.4												
SSK 116 KER-EX	10.4												
SSK 135 KER-EX	15.3												
UDK 3 ...	5												
UDK 4 ...	6												
UDMTK 5 ...	6												
UGSK ...	8												
UHK 4 ...	6												
UHSK/S 2000 ...	10												

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Continuous media, can be shortened to the pitch of the terminal block

Terminal marking

Terminal marking for Phoenix Contact



		ZB... see from page 116										
		0829414	0805001	1050004	1051003	1054000	1052002	1053001	0812120	0827461		
		UC-TM... see from page 110										
			0818111	0818108	0818085		0818072	0818069	0819194	0819217	US-TM 100	
		UCT-TM... see from page 132									0829255	
		0829484	0828732	0828734	0828736	0828738	0828740	0829142	0829144	0829146	TMT...	
		TMT... see from page 140									100 R	(Ex9,5)R
			0816375	0816430	0816498		0816553	0816210			0816605	0828295
Pitch		3.5	4	5	6	7.62	8	10	12	16	Continuous	
Screw terminal blocks		Tall marker groove										
UIK ... 16 ...	12											
UIK ... 35 ...	15.2											
UISLKG 16 ...	12											
UISLKG 35 ...	12											
UK 1,5 ...	4											
UK 2,5 ...	5											
UK 3 ...	5											
UK 4 ...	6											
UK 5 ...	6											
UK 5-HESI ...	8											
UK 5-MTD ...	8											
UK 6 ...	8											
UK 6,3-HESI ...	10.2											
UK 6-FSI ...	8											
UK 6-HEDI ...	8											
UK 10 ...	10											
UK 10-DREHSI ...	12											
UK 10,3 ... HESI ...	18											
UK 16 ...	12											
UK 35 ...	16											
UKD 6 ...	8											
UKH 50 ...	20											
UKH 70 ...	20.3											
UKH 95 ...	25											
UKH 150 ...	31											
UKH 240 ...	36											
UKK ... 3 ...	5											
UKK 4 ...	6											
UKK ...5 ...	6											
UKK 5-HESI ...	8											
UKK ...10 ...	10											
UKN 2,5 ...	6											
UKN 5 ...	6											
UKN 6 ...	8											

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Continuous media, can be shortened to the pitch of the terminal block

Terminal marking for Phoenix Contact

	ZBF... see from page 126											
	0829392	0808587	0808642	0808710		0808781	0809997	0809735	0827464			
	UC-TMF... see from page 112											
		0818166	0818153	0818140		0818137	0818124	0819233	0819262	US-TMF 100		
	UCT-TMF... see from page 134										0829260	
	0829486	0828742	0828744	0828746		0828748	0829204	0829214	0829218	TMT...		
TMT... R... see from page 140												
	0816375	0816430	0816498		0816553	0816210			100 R (Ex6,2)R			
									0816605	0803063		
Pitch	3.5	4	5	6	7.62	8	10	12	16	Continuous		
Screw terminal blocks Flat marker groove												
UIK ... 16 ...	12											
UIK ... 35 ...	15.2											
UISLKG 16 ...	12											
UISLKG 35 ...	12											
UK 1,5 ...	4											
UK 2,5 ...	5											
UK 3 ...	5											
UK 4 ...	6											
UK 5 ...	6											
UK 5-HESI ...	8											
UK 5-MTD ...	8											
UK 6 ...	8											
UK 6,3-HESI ...	10.2											
UK 6-FSI ...	8											
UK 6-HEDI ...	8											
UK 10 ...	10											
UK 10-DREHSI ...	12											
UK 10,3 ... HESI ...	18											
UK 16 ...	12											
UK 35 ...	16											
UKD 6 ...	8											
UKH 50 ...	20											
UKH 70 ...	20.3											
UKH 95 ...	25											
UKH 150 ...	31											
UKH 240 ...	36											
UKK ... 3 ...	5											
UKK 4 ...	6											
UKK ...5 ...	6											
UKK 5-HESI ...	8											
UKK ...10 ...	10											
UKN 2,5 ...	6											
UKN 5 ...	6											
UKN 6 ...	8											

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Continuous media, can be shortened to the pitch of the terminal block

Terminal marking

Terminal marking for Phoenix Contact



		ZB... see from page 116										
		0829414	0805001	1050004	1051003	1054000	1052002	1053001	0812120	0827461		
		UC-TM... see from page 110										
			0818111	0818108	0818085		0818072	0818069	0819194	0819217	US-TM 100	
		UCT-TM... see from page 132									0829255	
		0829484	0828732	0828734	0828736	0828738	0828740	0829142	0829144	0829146	TMT...	
		TMT... see from page 140									100 R	(Ex9,5)R
			0816375	0816430	0816498		0816553	0816210			0816605	0828295
Pitch		3.5	4	5	6	7.62	8	10	12	16	Continuous	
Screw terminal blocks		Tall marker groove										
UKN 10 ...	8											
UKN 16 ...	12											
UKN 35 ...	15											
UK-SI ...	8											
UR ... K ...	8											
USIG ...	10											
USK 4 ...	6											
USLKG 1,5 ...	4											
USLKG 2,5 ...	5											
USLKG 3 ...	5											
USLKG 5 ...	6											
USLKG 6 ...	8											
USLKG 10 ...	10											
USLKG 16 ...	12											
USLKG 35 ...	16											
USST ... 4 ...	6											
USST ... 6 ...	8											
USST ... 10 ...	10											
UT ... 2,5 ...	5											
UT ... 4 ...	6											
UT 4-...HE...I ...	6											
UT ... 6 ...	8											
UT ... 10 ...	10											
UT ... 16 ...	12											
UT ... 35 ...	16											
UVKB 4 ...	6											
UW ... 4 ...	8											
UW ... 10 ...	10											
UW ... 16 ...	12											
UW ... 25 ...	15											
UXKK 4 ...	6											
VBST ... 4 ...	6											
VIOK ...1,5 ...	6											

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Continuous media, can be shortened to the pitch of the terminal block

Terminal marking for Phoenix Contact

		ZBF... see from page 126									
		0829392	0808587	0808642	0808710		0808781	0809997	0809735	0827464	
		UC-TMF... see from page 112									
			0818166	0818153	0818140		0818137	0818124	0819233	0819262	US-TMF 100
		UCT-TMF... see from page 134								0829260	
		0829486	0828742	0828744	0828746		0828748	0829204	0829214	0829218	TMT...
		TMT... R... see from page 140								100 R	(Ex6,2)R
			0816375	0816430	0816498		0816553	0816210			0816605 0803063
	Pitch	3.5	4	5	6	7.62	8	10	12	16	Continuous
Screw terminal blocks		Flat marker groove									
UKN 10 ...	8										
UKN 16 ...	12										
UKN 35 ...	15										
UK-SI ...	8										
UR ... K ...	8										
USIG ...	10										
USK 4 ...	6										
USLKG 1,5 ...	4										
USLKG 2,5 ...	5										
USLKG 3 ...	5										
USLKG 5 ...	6										
USLKG 6 ...	8										
USLKG 10 ...	10										
USLKG 16 ...	12										
USLKG 35 ...	16										
USST ... 4 ...	6										
USST ... 6 ...	8										
USST ... 10 ...	10										
UT ... 2,5 ...	5										
UT ... 4 ...	6										
UT 4-...HE...I ...	6										
UT ... 6 ...	8										
UT ... 10 ...	10										
UT ... 16 ...	12										
UT ... 35 ...	16										
UVKB 4 ...	6										
UW ... 4 ...	8										
UW ... 10 ...	10										
UW ... 16 ...	12										
UW ... 25 ...	15										
UXKK 4 ...	6										
VBST ... 4 ...	6										
VIOK ...1,5 ...	6										

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Continuous media, can be shortened to the pitch of the terminal block

Terminal marking for Phoenix Contact



	ZB... see from page 116												
	0829414	0805001	1050004	1051003	1054000	1052002	1053001	0812120	0827461				
	UC-TM... see from page 110												
		0818111	0818108	0818085		0818072	0818069	0819194	0819217	US-TM 100			
	UCT-TM... see from page 132										0829255		
	0829484	0828732	0828734	0828736	0828738	0828740	0829142	0829144	0829146	TMT...			
	TMT... see from page 140										100 R	(Ex9,5)R	
		0816375	0816430	0816498		0816553	0816210			0816605	0828295		
Pitch	3.5	4	5	6	7.62	8	10	12	16	Continuous			
Spring-cage connection terminal blocks												Tall marker groove	
SGSK 6 ...	8												
SRDK 6 ...	8												
SRTK 6 ...	8												
ST 1,5 ...	4												
ST 1,5/S ...	3.5												
ST 2,5 ...	5												
ST 2,5-PE/3L	5												
ST 35 ...	16												
ST 4 ...	6												
ST 4-MT	6												
ST 6 ...	8												
ST 10 ...	10												
ST 16 ...	12												
STI 2,5 ...	5												
STI 4 ...	6												
STIO 2,5 ...	5												
STME... 6 ...	8												
STN 2,5 ...	5												
STN 4 ...	6												
STN 10 ...	10												
STN 16 ...	12												
STN 35 ...	16												
STS 2,5 ...	5												
STS 4 ...	6												
STS 6 ...	8												

Terminal marking for Phoenix Contact

	ZBF... see from page 126												
	0829392	0808587	0808642	0808710		0808781	0809997	0809735	0827464				
	UC-TMF... see from page 112												
		0818166	0818153	0818140		0818137	0818124	0819233	0819262	US-TMF 100			
	UCT-TMF... see from page 134										0829260		
	0829486	0828742	0828744	0828746		0828748	0829204	0829214	0829218	TMT...			
	TMT... R... see from page 140										100 R	(Ex6,2)R	
	0816375	0816430	0816498		0816553	0816210			0816605	0803063			
Pitch	3.5	4	5	6	7.62	8	10	12	16	Continuous			
Spring-cage connection terminal blocks												Flat marker groove	
MS ... 2,5 ...	5												
MZFKK ...1,5 ...	5												
SGSK 6 ...	8												
SRDK 6 ...	8												
SRTK 6 ...	8												
ST 1,5 ...	4												
ST 1,5/S ...	3.5												
ST 2,5 ...	5												
ST 2,5-3L ...	5												
ST 2,5-PE/3L	5												
ST 2,5-PE/L/N	5												
ST 35 ...	16												
ST 4 ...	6												
ST 4-MT	6												
ST 4-TG ...	6												
ST 6 ...	8												
ST 10 ...	10												
ST 16 ...	12												
STI 2,5 ...	5												
STI 4 ...	6												
STI 10 ...	10												
STI 16 ...	12												
STIO 2,5 ...	5												
STIO-IN 2,5 ...	5												
STME... 6 ...	8												
STN 2,5 ...	5												
STN 4 ...	6												
STN 10 ...	10												
STN 16 ...	12												
STN 35 ...	16												
STS 2,5 ...	5												
STS 4 ...	6												
STS 6 ...	8												

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Continuous media, can be shortened to the pitch of the terminal block

Terminal marking

Terminal marking for Phoenix Contact



ZB ...see from page 116											
0829414	0805001	1050004	1051003	1054000	1052002	1053001	0812120	0827461			
UC-TM...see from page 110											
	0818111	0818108	0818085		0818072	0818069	0819194	0819217			US-TM 100
UCT-TM... see from page 132											0829255
0829484	0828732	0828734	0828736	0828738	0828740	0829142	0829144	0829146			TMT...
TMT ...see from page 140											100 R (Ex9,5)R
	0816375	0816430	0816498		0816553	0816210					0816605 0828295
Pitch	3.5	4	5	6	7.62	8	10	12	16		Continuous
Spring-cage connection terminal blocks											
Tall marker groove											
STTBS 2,5 ...	5										
STTBS 4 ...	6										
STU 2,5 ...	5										
STU 4 ...	6										
STU 10 ...	10										
STU 35 ...	16										
ZFK 6-DREHSI ...	12										
ZGSK ...	8										
ZR ...	8										
ZRV ...	7.62										
Fast connection terminal blocks											
Tall marker groove											
QTC 1,5 ...	5										
QTC 2,5 ...	6										
QTCS 1,5 ...	5										
QTCS 2,5 ...	6										
QTCU 1,5 ...	5										
QTCU 2,5 ...	6										

Terminal marking for Phoenix Contact



ZBF... (see pages from 126)									
0829392	0808587	0808642	0808710		0808781	0809997	0809735	0827464	
UC-TMF...see from page 112									
	0818166	0818153	0818140		0818137	0818124	0819233	0819262	
UCT-TMF... see from page 134									
0829486	0828742	0828744	0828746		0828748	0829204	0829214	0829218	
TMT ...R...see from page 140									
	0816375	0816430	0816498		0816553	0816210			
Pitch	3.5	4	5	6	7.62	8	10	12	16

Spring-cage connection terminal blocks		Flat marker groove							
STTB 1,5 ...	4								
STTB 2,5 ...	5								
STTB 4 ...	6								
STTBS 2,5 ...	5								
STTBS 4 ...	6								
STTBU 4 ...	6								
STU 2,5 ...	5								
STU 4 ...	6								
STU 10 ...	10								
STU 35 ...	16								
ZDMTK 2,5 ...	5								
ZFK 6-DREHSI ...	12								
ZFKK 2,5 ...	6								
ZGSK ...	8								
ZPV ...	5								
ZR ...	8								
ZRV ...	7.62								
Fast connection terminal blocks		Flat marker groove							
QTC 1,5 ...	5								
QTC 2,5 ...	6								
QTCS 1,5 ...	5								
QTCS 2,5 ...	6								
QTCU 1,5 ...	5								
QTCU 2,5 ...	6								
QTCU 2,5-TWIN-MT	6								
QTTCB ... 1,5 ...	5								

US-TMF 100	
0829260	
TMT...	
100 R	(Ex6,2)R
0816605	0803063
Continuous	

Terminal marking

Terminal marking for Phoenix Contact



		ZB ...see from page 116									
		0829414	0805001	1050004	1051003	1054000	1052002	1053001	0812120	0827461	
		UC-TM...see from page 110									
			0818111	0818108	0818085		0818072	0818069	0819194	0819217	US-TM 100
		UCT-TM... see from page 132									0829255
		0829484	0828732	0828734	0828736	0828738	0828740	0829142	0829144	0829146	TMT...
		TMT ...see from page 140									100 R (Ex9,5)R
			0816375	0816430	0816498		0816553	0816210			0816605 0828295
Pitch		3.5	4	5	6	7.62	8	10	12	16	Continuous
Plug-in connection solutions		Tall marker groove									
PPCT 6 ...	8										
PT 1,5 ... P ...	3.5										
PT 2,5 ... P ...	5										
PT 4 ... P ...	6										
PT 6 ... P ...	8										
PTME 6 ...1P ...	8										
PTMED 6 ...1P ...	8										
PTS 1,5 ...1P ...	3.5										
PTTB 1,5 ...4P ...	3.5										
PTTBS 1,5 ...2P ...	3.5										
PTTBS 2,5 ...2P ...	5										
QTC 1,5 ...1P ...	5										
ST 2,5 ... P ...	5										

Terminal marking for Phoenix Contact

		ZBF ...see from page 126										
		0829392	0808587	0808642	0808710		0808781	0809997	0809735	0827464		
		UC-TMF...see from page 112										
			0818166	0818153	0818140		0818137	0818124	0819233	0819262		US-TMF 100
		UCT-TMF... see from page 134										0829260
		0829486	0828742	0828744	0828746		0828748	0829204	0829214	0829218		TMT...
		TMT ...R...see from page 140										100 R (Ex6,2)R
			0816375	0816430	0816498		0816553	0816210				0816605 0803063
	Pitch	3.5	4	5	6	7.62	8	10	12	16		Continuous
Plug-in connection solutions		Flat marker groove										
FC 4-PCB ...	78											
MPT 1,5 ...1P ...	3.5											
PPC 1,5 ...	3.5											
PPC 6 ...	8											
PPCT 6 ...	8											
PP-H 1,5 ...	3.5											
PP-H 2,5 ...	5											
PP-H 4 ...	6											
PP-H 6 ...	8											
PT 1,5 ... P ...	3.5											
PT 2,5 ... P ...	5											
PT 4 ... P ...	6											
PT 6 ... P ...	8											
PTME 6 ...1P ...	8											
PTMED 6 ...1P ...	8											
PTS 1,5 ...1P ...	3.5											
PTTB 1,5 ...2P ...	3.5											
PTTB 1,5 ...4P ...	3.5											
PTTB 2,5 ...2P ...	5											
PTTBS 1,5 ...2P ...	3.5											
PTTBS 2,5 ...2P ...	5											
QP 1,5 ...	5											
QTC 1,5 ...1P ...	5											
QTTCB 1,5 ...2P ...	5											
SC 2,5 ...	5											
SC 4 ...	6											
SP 4 ...	6											
SPB ... 2,5 ...	5											
SPH 2,5 ...	5											
SPV 2,5 ...	5											
ST 2,5 ... P ...	5											
ST 2,5-PCB ...	5											

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Continuous material can be cut to the pitch of the terminal block

Terminal marking for Phoenix Contact

		ZB ...see from page 116									
		0829414	0805001	1050004	1051003	1054000	1052002	1053001	0812120	0827461	
		UC-TM...see from page 110									
			0818111	0818108	0818085		0818072	0818069	0819194	0819217	US-TM 100
		UCT-TM... see from page 132									0829255
		0829484	0828732	0828734	0828736	0828738	0828740	0829142	0829144	0829146	TMT...
		TMT ...see from page 140									100 R (Ex9,5)R
			0816375	0816430	0816498		0816553	0816210			0816605 0828295
	Pitch	3.5	4	5	6	7.62	8	10	12	16	Continuous
Plug-in connection solutions		Tall marker groove									
ST 4 ... P ...	6										
STTB 2,5 ...4P ...	5										
UPCT 4 ...	12.4										
UT 2,5 ...1P...	5										
UT 4 ... P ...	6										
UT 6 ... P ...	8										
UTME 4 ...1P ...	6										

Terminal marking for Phoenix Contact

		ZBF ...see page 126										
		0829392	0808587	0808642	0808710		0808781	0809997	0809735	0827464		
		UC-TMF...see from page 112										
			0818166	0818153	0818140		0818137	0818124	0819233	0819262		US-TMF 100
		UCT-TMF... see from page 134										0829260
		0829486	0828742	0828744	0828746		0828748	0829204	0829214	0829218		TMT...
		TMT ...R...see from page 140										100 R (Ex6,2)R
			0816375	0816430	0816498		0816553	0816210				0816605 0803063
	Pitch	3.5	4	5	6	7.62	8	10	12	16		Continuous
Plug-in connection solutions		Flat marker groove										
ST 2,5-PCB ...	10.4											
ST 4 ... P ...	6											
ST 4-PCB ...	6											
STTB 2,5 ...2P ...	5											
STTB 2,5 ...4P ...	5											
UP 4 ...	6											
UP 6 ...	8											
UPBV 2,5 ...	5											
UPBV 4 ...	6											
UPCT 4 ...	12.4											
UT 2,5 ...1P...	5											
UT 4 ... P ...	6											
UT 6 ... P ...	8											
UTME 4 ...1P ...	6											
UTTB 2,5 ...2P ...	5											

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Continuous material can be cut to the pitch of the terminal block

Marking and labeling – MARKING system

Terminal marking

Terminal marking for Phoenix Contact



		ZB ...see from page 116									
		0829414	0805001	1050004	1051003	1054000	1052002	1053001	0812120	0827461	
		UC-TM...see from page 110									
			0818111	0818108	0818085		0818072	0818069	0819194	0819217	US-TM 100
		UCT-TM... see from page 132								0829255	
		0829484	0828732	0828734	0828736	0828738	0828740	0829142	0829144	0829146	TMT...
		TMT ...see from page 140								100 R (Ex9,5)R	
			0816375	0816430	0816498		0816553	0816210			0816605 0828295
Pitch		3.5	4	5	6	7.62	8	10	12	16	Continuous
Bolt connection terminal blocks		Tall marker groove									
HV M5 ...	13										
HV M6 ...	16										
HV M8 ...	21										
HV M10 ...	32										
HV M12 ...	32										
RBO 5 ...	13										
RBO 6 ...	17										
RBO 8 ...	29										
RBO 10 ...	41										
RBO 12 ...	49										
RBO 16 ...	54.9										
RSC 4 ...	9										
RSC 5 ...	13										
RSC 6 ...	17										
RT 3 ...	12										
RT 4 ...	12										
RT 5 ...	16										
RT 8 ...	20.3										
RTO 3 ...	12										
RTO 5 ...	16										
RTO 8 ...	20.3										
UHV 25 ...	26										
UHV 50 ...	32										
UHV 95 ...	40										
UHV 150 ...	46										
UHV 240 ...	53										

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Continuous material can be cut to the pitch of the terminal block

Terminal marking for Phoenix Contact



ZBF ...see page 126										
0829392	0808587	0808642	0808710			0808781	0809997	0809735	0827464	
UC-TMF...see from page 112										
	0818166	0818153	0818140			0818137	0818124	0819233	0819262	US-TMF 100
UCT-TMF... see from page 134										0829260
0829486	0828742	0828744	0828746			0828748	0829204	0829214	0829218	TMT...
TMT ...R...see from page 140										100 R (Ex6,2)R
	0816375	0816430	0816498			0816553	0816210			0816605 0803063
Pitch	3.5	4	5	6	7.62	8	10	12	16	Continuous
Bolt connection terminal blocks										
Flat marker groove										
HV M5 ...	13									
HV M6 ...	16									
HV M8 ...	21									
HV M10 ...	32									
HV M12 ...	32									
RBO 5 ...	13									
RBO 6 ...	17									
RBO 8 ...	29									
RBO 10 ...	41									
RBO 12 ...	49									
RBO 16 ...	54.8									
RSC 4 ...	9									
RSC 5 ...	13									
RSC 6 ...	17									
RT 3 ...	12									
RT 4 ...	12									
RT 5 ...	16									
RT 8 ...	20.3									
RTO 3 ...	12									
RTO 5 ...	16									
RTO 8 ...	20.3									
UHV 25 ...	26									
UHV 50 ...	32									
UHV 95 ...	40									
UHV 150 ...	46									
UHV 240 ...	53									

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Continuous material can be cut to the pitch of the terminal block

Terminal marking

Terminal marking for ABB



		UCT6M-TM ... see from page 165		
		0830756	0830757	0830758
		UM6M-TM ... see from page 173		
		0830928	0830926	0830939
	Pitch	5	6	8
Screw connection terminal blocks		Tall marker groove		
CDS4 ...	5.2			
CDS4 ... R1	6			
ZDS4 ...	5.2			
ZDS4 ... R1	6			
ZS4 ...	5.2			
ZS4 ... R ...	6			
ZS4 ... SF1 ...	8			
ZS4-R1	8			
ZS4-SF ...	6			
ZS4-S-R3	8			
ZS6 ...	6			
ZS10 ...	8			
ZS16 ...	10			
ZS25 ...	12			
ZS35 ...	16			
ZS50 ...	16			
ZS70 ...	22			
ZS95 ...	26			
Spring-cage connection terminal blocks		Tall marker groove		
CDK2,5 ...	5.2			
CDK4 ...	6			
ZDK2,5 ...	5.2			
ZDK4 ...	6			
ZK2,5 ...	5.2			
ZK2,5 ... R1 ...	6			
ZK2,5 ... SF ...	6			
ZK4 ...	6			
ZK6 ...	8			
ZK10 ...	10			
ZK16 ...	12			

 Pitch of Phoenix Contact marking material same as ABB

 Pitch of Phoenix Contact marking material smaller than ABB

Terminal marking for Allen Bradley / Rockwell



	UC1-TMF ...		UC1-TM...see from page 156						
	0821425	0821483	0821784		0821247		0821739		
	UCT1-TMF ...		UCT1-TM ... see from page 162						
	0829237	0829243	0829482		0829483				
	UM1-TMF ...		UM1-TM ... see from page 168						
	(5x5)	(6x5)	(5x10)	(5x12)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)
	0830902	0830904	0830905	0830912	0830903	0830909	0830906	0830920	0830916
Pitch	5	6	5	5	6	6	8	8	12
Screw connection terminal blocks			Flat marker groove						
1492-J3	5.1								
1492-J3P	5.1								
1492-J4	6.1								
1492-J6	8.1								
1492-J10	10								
1492-J16	12								
1492-J35	16								
1492-JD3 ...	5.1								
1492-JD3P	5.1								
1492-JD4 ...	6.1								
1492-JG3	5.1								
1492-JG4	6.1								
1492-WTF3 ...	5.1								
1492-WTS3 ...	5.1								

Marking and labeling – MARKING system

Terminal marking

Terminal marking for Cabur



		UCT5-TM... see from page 164		
			0828750	0828752
		UM5-TM...see from page 173		
		(4x10)	(5x10)	(6x10)
		0830938	0830922	0830919
Pitch	4	5	6	
Screw connection terminal blocks		Tall marker groove		
AFO.2 ...	6.5			
CBC. 2 ...	5			
CBC.4 ...	6			
CBC.6 ...	8			
CBC.10 ...	10			
CBC.16 ...	12			
CBC.35 ...	16			
CBD.2 ...	5.5			
CBD.4 ...	6.5			
CBD.6 ...	8			
CBD.10 ...	10			
CBD.16 ...	12			
CBD.35 ...	16			
CBD.50 ...	18			
CBD.70 ...	20.5			
CBE.2 ...	5			
CBR.2 ...	5			
CDA.70 ...	27			
CDA.120 ...	32			
CDA.185 ...	38			
CNT.6 ...	8			
CNT.16 ...	12			
CNT.35 ...	16			
CPF/5 ...	6			
CVF4 ...	7.5			
DAS.4 ...	6			
DBC.2 ...	5			
DSFA.4 ...	6			
DSS.4 ...	6			
EDM.2 ...	5.5			
EDM.4 ...	6.5			
EDM.6 ...	8			
EDM.10 ...	10			



Pitch of Phoenix Contact marking material same as Cabur



Pitch of Phoenix Contact marking material smaller than Cabur

Terminal marking for Cabur



		UCT5-TM... see from page 164		
			0828750	0828752
		UM5-TM...see from page 173		
		(4x10)	(5x10)	(6x10)
		0830938	0830922	0830919
Pitch	4	5	6	
Screw connection terminal blocks		Tall marker groove		
EDM.16 ...	12			
EDM.25 ...	16			
EDM.35 ...	18.5			
EDM.70 ...	21			
FFS.4 ...	6.5			
FLD.10 ...	11			
FP ... 10 ...	12			
FVS.4 ...	6.5			
GPA.70 ...	20.5			
GPA.95 ...	26			
GPA.150 ...	31			
GPA.240 ...	37			
GPM.95 ...	32			
GPM.150 ...	42			
GPM.240 ...	52			
MAC.6 ...	8			
MPFA.4 ...	6			
MPS.2 ...	5.5			
MPS.4 ...	6			
RFI.2 ...	6			
RN. ...	8			
RP.4 ...	9			
SCB.6 ...	8			
SCB.10 ...	10.5			
SCX.10 ...	10.5			
SF ... 4	8			
SF ... 10	12			
SFR.6 ...	10			
SV.2 ...	5.5			
SV.4 ...	7			
SV.6 ...	8			
SV.10 ...	10.5			
TC ...	5.5			

Marking and labeling – MARKING system

Terminal marking

Terminal marking for Cabur



		UCT5-TM... see from page 164		
			0828750	0828752
		UM5-TM...see from page 173		
		(4x10)	(5x10)	(6x10)
		0830938	0830922	0830919
	Pitch	4	5	6
Screw connection terminal blocks			Tall marker groove	
TDE.2 ...	6.2			
TE ... 2 ...	5.5			
TE ... 4 ...	6.5			
TE 6 ...	8			
TE ... 10 ...	10			
TE ... 16 ...	12			
TE ... 35 ...	16			
TE ... 50 ...	18			
TE ... 70 ...	20.5			
TL ... 2 ...	6.2			
TR.2 ...	5			
TR.4 ...	7.3			
VL.16 ...	29			
VLM.10 ...	13			
VP ... 2 ...	5.08			
Push-in connection terminal blocks			Tall marker groove	
NCS	6.2			
NCV	6.2			

 Pitch of Phoenix Contact marking material same as Cabur

 Pitch of Phoenix Contact marking material smaller than Cabur

Terminal marking for Cabur



		UCT5-TM... see from page 164		
		0828750	0828752	
		UM5-TM...see from page 173		
		(4x10)	(5x10)	(6x10)
		0830938	0830922	0830919
Pitch		4	5	6
Spring-cage connection terminal blocks		Tall marker groove		
CHP.2 ...	5.2			
HCD.1 ...	5.08			
HFR.4 ...	6.2			
HLD.2 ...	5.2			
HM ... 1 ...	4.2			
HM ... 2 ...	5.2			
HM ... 4 ...	6.2			
HM ... 6 ...	8.2			
HM ... 10 ...	10			
HM ... 16 ...	12			
HMF.4 ...	8			
HMR.16 ...	12.8			
HSCB.4 ...	6.2			
HTE.1 ...	4.2			
HTE.2 ...	5.2			
HTE.4 ...	6.2			
HTE.6 ...	8.2			
HTE.10 ...	10			
HTE.16 ...	12			
HTTE.2 ...	5.2			
HVPC.2 ...	5.2			
HVTE.2 ...	5.2			

Marking and labeling – MARKING system

Terminal marking

Terminal marking for CONTA-CLIP



		UC1-TMF ...					UC1-TM...see from page 156											
		0821360	0821425	0821483	0821548		0821784		0821247		0821739							
		UCT1-TMF ...					UCT1-TM... see from page 162											
		0829237	0829243				0829482	0803204	0829483									
		UM1-TMF ...					UM1-TM...see from page 168											
		(3,5x5)		(5x5)	(6x5)	(8x5)	(3,5x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)		
		0830935		0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916		
	Pitch	3.5	4	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12		
Screw connection terminal blocks		Flat marker groove					Tall marker groove											
BKA 2,5	5																	
BKA 4	6																	
BKA 10	8																	
DLI ... 2,5	6																	
FF 1/15	6																	
FF 2,5	6																	
IK ... 2,5	5																	
KBL 2,5	5																	
KBL 2,5-4	6																	
KBL 6	8																	
NT 2,5	6																	
NT 6	8																	
P ... K 10 ...	8																	
RK 1,5	6																	
RK 2,5	5																	
RK 2,5-4	6																	
RK 6	8																	
RK 16	12																	
RK 35	16																	
RK 50	20																	
RK 95	25																	
RK 150	31																	
RK 240	36																	
RKB 4	6																	
RKD 2,5	5																	
RKD 4	6																	

 Pitch of Phoenix Contact marking material same as CONTA-CLIP

 Pitch of Phoenix Contact marking material smaller than CONTA-CLIP

Terminal marking for CONTA-CLIP



		UC1-TMF ...				UC1-TM...see from page 156											
		0821360	0821425	0821483	0821548	0821784		0821247		0821739							
		UCT1-TMF ...				UCT1-TM... see from page 162											
		0829237	0829243			0829482	0803204	0829483									
		UM1-TMF ...				UM1-TM...see from page 168											
		(3,5x5)	(5x5)	(6x5)	(8x5)	(365x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)		
		0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916		
Pitch		3.5	4	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12	
Screw connection terminal blocks		Flat marker groove					Tall marker groove										
RKDG 4	6																
SF 2,5	6																
SIK 10 PA	8																
SIK 10/Z	10																
SK 1	12.2																
SL ... 2,5	6																
SL 4/15	7																
SL 4/35	8																
SL 10	10																
SL 16	12																
SL 35	16																
SMAG 4/2,5	5.9																
SMAG 6/4	6.6																
SMAG 10/6	8.3																
SPTK 10 ...	8																
SRK ... 10 ...	10																
SRK ... 2,5 ...	5																
SRK ... 4 ...	6																
SRK 6	8																
SRK 16	12.1																
SRK 35	16.1																
SRK 50	18.5																
SRK 70	20.5																
SRK 120	27																
SSIK 4	6.1																
SSIK 6	8.1																

 Pitch of Phoenix Contact marking material same as CONTA-CLIP

 Pitch of Phoenix Contact marking material smaller than CONTA-CLIP

Terminal marking

Terminal marking for CONTA-CLIP



		UC1-TMF ...				UC1-TM...see from page 156											
		0821360	0821425	0821483	0821548	0821784		0821247		0821739							
		UCT1-TMF ...				UCT1-TM... see from page 162											
		0829237	0829243			0829482	0803204	0829483									
		UM1-TMF ...				UM1-TM...see from page 168											
		(3,5x5)	(5x5)	(6x5)	(8x5)	(3,5x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)		
		0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916		
Pitch		3.5	4	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12	
Screw connection terminal blocks		Flat marker groove				Tall marker groove											
SSL ... 2,5 ...	5																
SSL ... 4 ...	6																
SSL 6	8																
SSL ... 10 ...	10																
SSL 16	12.1																
SSL 35	16.1																
SSL 50	18.5																
SSL 70	20.5																
STA 5/1	5																
STK ... 1	8																
STK 2	8																
TK 2	8																
TK ... 4	7.5																
TKS 10	11.25																
TRK 1,5	6																
TSK 2,5	10																
VMAK 2,5	6																

 Pitch of Phoenix Contact marking material same as CONTA-CLIP

 Pitch of Phoenix Contact marking material smaller than CONTA-CLIP

Terminal marking for CONTA-CLIP



		UC1-TMF ...				UC1-TM...see from page 156											
		0821360	0821425	0821483	0821548	0821784		0821247		0821739							
		UCT1-TMF ...				UCT1-TM... see from page 162											
		0829237	0829243			0829482	0803204	0829483									
		UM1-TMF ...				UM1-TM...see from page 168											
		(3,5x5)		(5x5)	(6x5)	(8x5)	(3,5x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)	
		0830935		0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916	
Pitch		3.5	4	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12	
Push-in connection terminal blocks		Flat marker groove					Tall marker groove										
FDLI ... 2,5	5.1																
FDLIS B 2,5	15.3																
FNT 2,5	5.1																
FNT 6	8.1																
FRK 1,5	4.1																
FRK ... 2,5	5.1																
FRK 4	6.1																
FRKI 6	8.1																
FSIK 4	6.1																
FSL 1,5	4.1																
FSL ... 2,5	5.1																
FSL 4	6.1																
FSLI 6	8.1																
FTRK 2,5	5.1																

 Pitch of Phoenix Contact marking material same as CONTA-CLIP

 Pitch of Phoenix Contact marking material smaller than CONTA-CLIP

Terminal marking

Terminal marking for CONTA-CLIP



		UC1-TMF ...					UC1-TM ... see from page 156											
		0821360	0821425	0821483	0821548		0821784		0821247		0821739							
		UCT1-TMF ...					UCT1-TM ... see from page 162											
		0829237	0829243				0829482	0803204	0829483									
		UM1-TMF ...					UM1-TM ... see from page 168											
		(3,5x5)		(5x5)	(6x5)	(8x5)	(3,5x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)		
		0830935		0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916		
	Pitch	3.5	4	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12		
Spring-cage connection terminal blocks		Flat marker groove					Tall marker groove											
FIK 2,5 ...	5.1																	
SL 4	6.1																	
ZIKD 2,5	5.1																	
ZIZA 1,5	5.1																	
ZMP 1,5	5.1																	
ZRK ... 2,5	5.1																	
ZRK 4	6.1																	
ZRK 6	8.1																	
ZRK 10	10.1																	
ZRK 16	12.1																	
ZSL 2,5	5.1																	
ZSL 4	6.1																	
ZSL 6	8.1																	
ZSL 10	10.1																	
ZSL 16	12.1																	
ZSLD 2,5	5.1																	
ZSL ... 2,5	5.1																	
ZSRK 2,5	5.1																	
ZST 2,5	5.1																	
ZSTK 2,5	5.1																	
ZSTK 2,5 ...	5.1																	
ZTRK 2,5	5.1																	
ZVMAK 2,5	5.1																	

 Pitch of Phoenix Contact marking material same as CONTA-CLIP

 Pitch of Phoenix Contact marking material smaller than CONTA-CLIP

Terminal marking for CONTA-CLIP



		UC1-TMF ...				UC1-TM ... see from page 156											
		0821360	0821425	0821483	0821548	0821784		0821247		0821739							
		UCT1-TMF ...				UCT1-TM ... see from page 162											
		0829237	0829243			0829482	0803204	0829483									
		UM1-TMF ...				UM1-TM ... see from page 168											
		(3,5x5)		(5x5)	(6x5)	(8x5)	(3,5x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)	
		0830935		0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916	
Pitch		3.5	4	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12	
Bolt connection terminal blocks		Flat marker groove					Tall marker groove										
HSK 16	13																
HSK 35	16																
HSK 50	21																
HSK 70	40																
HSK 95	40																
HSK 120	32																
HSK 150	50																
HSK 240	50																
HSKG 35 ...	27																
HSKG 70 ...	32																
HSKG 120 ...	42																
HSKG 185 ...	55																
HSKG 300 ...	55																

 Pitch of Phoenix Contact marking material same as CONTA-CLIP

 Pitch of Phoenix Contact marking material smaller than CONTA-CLIP

Terminal marking

Terminal marking for Entelec



		UC1-TMF ... see from page 157			UC2F-TM ... see from page 159		
		0821425	0821483	0821548	0822181	0822194	0822204
		UCT1-TMF ... see from page 162			UCT6R-TM ... see from page 166		
		0829237	0829243		0830753	0830754	0830755
		UM1-TMF ... see from page 171			UM6R-TM ... see from page 174		
		(5x5)	(6x5)	(8x5)	(5x10)	(6x10)	(8x10)
		0830902	0830904	0830924	0830923	0830921	0830932
	Pitch	5	6	8	5	6	8
Screw connection terminal blocks		Flat marker groove			Tall marker groove		
D1/5 ... ADO ...	5						
D1,5/6 ... ADO ...	6						
D1,5/8 ... ADO ...	8						
D2,5/5 ... ADO ...	5						
D2,5/6 ...	6						
D2,5/8 ... ADO ...	8						
D4/6 ...	6						
D4/6 ... ADO ...	6						
D4/6 ... LNTP ...	17.8						
D4/8 ... ADO ...	8						
D6/8 ...	8						
D6/8 ... ADO ...	8						
D6/10 ...	10						
DB1,5/8 ... ADO ...	6						
DB2,5/5 ... ADO ...	5						
DB2,5/8 ... ADO ...	8						
DB4/6 ... ADO ...	6						
DB4/8 ... ADO ...	8						
DH1,5/6 ... ADO ...	6						
DH4/6 ... ADO ...	6						
DR1,5/5 ...	5						
DR1,5/6 ... ADO ...	6						
DR2,5/5 ...	5.08						
DR2,5/8 ... ADO ...	8						
DR2,5/10 ...	10						
DR4/6 ...	6						
DR4/8 ...	8						
DRE1,5/5 ... ADO ...	5						
DRE1,5/6 ... ADO ...	6						
DRE2,5/5 ... ADO ...	5						
DRE2,5/8 ... ADO ...	8						
DRE4/6 ... ADO ...	6						
DRE4/8 ... ADO ...	8						



Pitch of Phoenix Contact marking material same as Entelec



Pitch of Phoenix Contact marking material smaller than Entelec

Terminal marking for Entelec



		UC1-TMF ... see from page 157			UC2F-TM ... see from page 159		
		0821425	0821483	0821548	0822181	0822194	0822204
		UCT1-TMF ... see from page 162			UCT6R-TM ... see from page 166		
		0829237	0829243		0830753	0830754	0830755
		UM1-TMF ... see from page 171			UM6R-TM ... see from page 174		
		(5x5)	(6x5)	(8x5)	(5x10)	(6x10)	(8x10)
		0830902	0830904	0830924	0830923	0830921	0830932
	Pitch	5	6	8	5	6	8
Screw connection terminal blocks		Flat marker groove			Tall marker groove		
DS1,5/6 ... ADO ...	6						
DS2,5/5 ... ADO ...	5						
DS2,5/8 ... ADO ...	8						
DS4/6 ... ADO ...	6						
DS4/8 ... ADO ...	8						
DSE1,5/6 ... ADO ...	6						
DSE2,5/5 ... ADO ...	5						
DSE2,5/8 ... ADO ...	8						
DSE4/6 ... ADO ...	6						
DSE4/8 ... ADO ...	8						
M4/6 ...	6						
M6/8 ...	8						
M10/10 ...	10						
M16/12 ...	12						
M35/16 ...	17						
M35/26 ...	26						
M70/31 ...	31						
M120/35 ...	35						
M300/42 ...	42						
MA2,5/5 ...	5.08						
MS4/6 ...	6						
MS6/8 ...	8						
MTC6 ...	6						

 Pitch of Phoenix Contact marking material same as Entelec

 Pitch of Phoenix Contact marking material smaller than Entelec

Terminal marking

Terminal marking for Entelec



		UC1-TMF ... see from page 157			UC2F-TM ... see from page 159		
		0821425	0821483	0821548	0822181	0822194	0822204
		UCT1-TMF ... see from page 162			UCT6R-TM ... see from page 166		
		0829237	0829243		0830753	0830754	0830755
		UM1-TMF ... see from page 171			UM6R-TM ... see from page 174		
		(5x5)	(6x5)	(8x5)	(5x10)	(6x10)	(8x10)
		0830902	0830904	0830924	0830923	0830921	0830932
	Pitch	5	6	8	5	6	8
Spring-cage connection terminal blocks		Flat marker groove			Tall marker groove		
D2,5/5 ... L ...	5						
D2,5/5 ... D ...	5						
D4/6 ... L ...	6						
D6/8 ... L ...	8						
D10/10 ... L ...	10						
DB2,5/5 ... L ...	5						
DH2,5/5 ... L ...	5						
DR2,5/5 ... L ...	5						
DR2,5/10 ... L ...	10						
DS2,5/5 ... L ...	5						
DS2,5/10 ... L ...	10						
M4/6 ... D2 ...	6						
Bolt connection terminal blocks		Flat marker groove			Tall marker groove		
M6/9 ...	9.5						
M6/12 ...	12.5						
M6/13 ...	13						



Pitch of Phoenix Contact marking material same as Entelec



Pitch of Phoenix Contact marking material smaller than Entelec

Terminal marking for Klemmsan



		UC1-TMF ... see from page 157					UC1-TM ... see from page 156											
		0821360 0821425 0821483 0821548					0821784		0821247				0821739					
		UCT1-TMF ... see from page 162					UCT1-TM ... see from page 162											
			0829237 0829243					0829482 0803204		0829483								
		UM1-TMF ... see from page 171					UM1-TM ... see from page 168											
		(3,5x5)		(5x5)	(6x5)	(8x5)	(3,5x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)		
		0830935		0830902 0830904 0830924		0830925	0830905	0830910	0830912	0830903	0830907	0830903	0830906	0830920	0830916			
Pitch		3.5	4	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12		
Screw connection terminal blocks		Flat marker groove					Tall marker groove											
ASK 2...	8																	
ASK 3...	6.2																	
ASK 4 LD...	10																	
ASK 4 S...	10																	
ASK 5...	8																	
AVK 2,5...	5																	
AVK 2,5 CCA...	6																	
AVK 2,5 EA...	6																	
AVK 2,5 F...	6																	
AVK 2,5 T RD	5.75																	
AVK 2,5/4...	6																	
AVK 4...	6																	
AVK 4 B...	10																	
AVK 4 FS...	8																	
AVK 4 T RD	6.2																	
AVK 6...	8																	
AVK 10...	10																	
AVK 12 ...	12																	
AVK 16...	12																	
AVK 25...	12																	
AVK 35...	16																	
AVK 50 ...	20																	
AVK 70 ...	22																	
AVK 95 ...	25																	
AVK 150 ...	31																	
AVK 240 ...	36																	
AVK AS ...	5.8																	
AVK SKT ...	5.8																	
AVK Y 4...	6																	
AVK Y 6...	8																	
AVK Y 10...	10																	
MVK 2,5...	5																	
MVK 4...	6																	
PB 2,5 ...	9																	

 Pitch of Phoenix Contact marking material same as Klemmsan

 Pitch of Phoenix Contact marking material smaller than Klemmsan

Terminal marking

Terminal marking for Klemmsan



		UC1-TMF ... 157					UC1-TM ... see from page 156											
		0821360	0821425	0821483	0821548		0821784		0821247		0821739							
		UCT1-TMF ... 162					UCT1-TM ... see from page 162											
		0829237	0829243				0829482	0803204		0829483								
		UM1-TMF ... 171					UM1-TM ... see from page 168											
		(3,5x5)		(5x5)	(6x5)	(8x5)	(3,5x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)		
		0830935		0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830903	0830906	0830920	0830916		
Pitch		3.5	4	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12		
Screw connection terminal blocks		Flat marker groove					Tall marker groove											
PB 2,5T ...	10																	
PB 6 ...	11																	
PB 6T ...	12																	
PB 25 ...	18																	
PIK 2,5 N...	8																	
PIK 10 N...	10																	
PIK 4 ...	6																	
PUK ...	6																	
WG-EKI	7																	
WGL 1...	8																	
WGO 1...	8																	
WGO 2...	10																	
WGO 3...	8																	
WGO 4...	8																	
WGO 5 ...	8																	
WGO PB...6...	11																	
WGO Y...6...	8																	
Bolt connection terminal blocks		Flat marker groove					Tall marker groove											
AVK 95 B...	40																	
AVK 150 B...	48																	
AVK 240 B...	53																	
AVK PB 50...	20																	
AVK PB 70...	22																	
AVK PB 95...	25																	
AVK PB 150...	31																	
AVK PB 240...	36																	
CPB 6...	9.5																	
CPB 6B...	13																	
PB 6...	11																	

 Pitch of Phoenix Contact marking material same as Klemmsan

 Pitch of Phoenix Contact marking material smaller than Klemmsan

Terminal marking for Klemmsan



		UC1-TMF ... 157					UC1-TM ... see from page 156											
		0821360	0821425	0821483	0821548		0821784		0821247		0821739							
		UCT1-TMF ... 162					UCT1-TM ... see from page 162											
		0829237	0829243				0829482	0803204	0829483									
		UM1-TMF ... 171					UM1-TM ... see from page 168											
		(3,5x5)		(5x5)	(6x5)	(8x5)	(3,5x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)		
		0830935		0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830903	0830906	0830920	0830916		
Pitch		3.5	4	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12		
Spring-cage connection terminal blocks		Flat marker groove					Tall marker groove											
MY ... K 2,5...	5																	
MYVR 2,5	5																	
MYVR 2,5 C	10																	
PCY 2,5...	5.05																	
PYK 1,5...	4.2																	
PYK 2,5...	5																	
PYK 3 S...	5																	
PYK 4...	6																	
PYK 4 I...	8																	
PYK 4 S...	8																	
PYK 6...	8																	
PYK 10...	10																	
PYK 16 ...	12																	
PYK TEST	5																	
PYKM 2,5...	5																	
PYKMR 2,5...	5																	
TRV 4 ...	7.5																	
TRV 4 M ...	15																	
TRV 4 S ...	12.5																	
TRV 4 T ...	12																	
TRV 10 ...	22																	
YBK 2,5...	5																	
YBK 3 S...	5																	
YBK 4...	6																	
YBK 6...	8																	
YBK 10...	10																	
YBK I...	8																	
YBK S...	8																	

 Pitch of Phoenix Contact marking material same as Klemmsan

 Pitch of Phoenix Contact marking material smaller than Klemmsan

Terminal marking

Terminal marking for Legrand



UM7-TM...see from page 175			
	(5x10)	(6x10)	(8x10)
	0830933	0830931	0830945
Pitch	5	6	8
Screw connection terminal blocks		Tall marker groove	
0371 ...	5		
0371 ...	6		
0371 ...	8		
0371 ...	10		
0371 ...	12		
0371 ...	15		
0371 ...	22		

Spring-cage connection terminal blocks		Tall marker groove	
0372 ...	5		
0372 ...	6		
0372 ...	8		
0372 ...	10		
0372 ...	12		

 Pitch of Phoenix Contact marking material same as Legrand

 Pitch of Phoenix Contact marking material smaller than Legrand

Terminal marking for Wago



UC1-TMF ...					UC2-TM ...					US2-TM ...
	0821360	0821425	0821483	0821548		0821713	0821690	0821674	0821755	0829268
UCT1-TMF ...					UCT2-TM ...					
		0829237	0829243				0829249	0829249		
UM1-TMF ...					UM2-TM ...					TMT2 ...
(3,5x5)		(5x5)	(6x5)	(8x5)	(3,5x10)	(4x10)	(5/6x10)	(5/6x10)		(Ex11)R
0830935		0830902	0830904	0830924	0830936	0830934	0830911	0830911		0802683

Pitch	3.5	4	5	6	8	3.5	4	5	6	8	Continuous

Spring-cage connection terminal blocks		Flat marker groove					Tall marker groove					
2000-1 ..., 2000-2 ...	3.5											
2000-2 ..., 2001-1 ..., 2001-5 ...	4											
2001-5 ..., 2002-1 ...	5											
2002-1 ...	6											
2002-2 ...	5											
2002-2 ...	6											
2002-3 ..., 2002-4 ..., 2002-6 ..., 2002-7 ..., 2003-6 ..., 2003-7 ...	5											
2003-9 ...	10.4											
2004-1 ..., 2004-5 ..., 2005-7 ...	6											
2006-1 ...	7.5											
2006-1 ...	10.4											
2006-1 ...	15											
2006-5 ...	7.5											
2006-7 ...	5											
2006-8 ...	15											
2006-9 ...	7.4											
2006-9 ...	10.4											
2007-8 ...	8											
2010-1 ..., 2010-5 ...	10											
2016-1 ...	12											
2016-7 ...	12											
2020-1 ..., 2020-2 ...	3.5											
2022-1 ..., 2022-2 ...	5											
249-1 ...	5											
249-1 ...	6											
261-4 ...	6											
264-1 ...	6											
264-1 ...	6											
264-2 ...	10											
264-2 ...	10											
264-3 ...	6											
264-3 ...	10											
264-7 ...	6											
264-7 ...	10											
270-5 ...	5											

Pitch of Phoenix Contact marking material same as Wago

Pitch of Phoenix Contact marking material smaller than Wago

Continuous material can be cut to the pitch of the terminal block

Marking and labeling – MARKING system

Terminal marking

Terminal marking for Wago



		UC1-TMF ...see from page 157					UC2-TM ...see from page 158					US2-TM ...
		0821360	0821425	0821483	0821548		0821713	0821690	0821674	0821755		0829268
		UCT1-TMF ...see from page 162					UCT2-TM ... see from page 163					
			0829237	0829243				0829249	0829249			
		UM1-TMF ...see from page 171					UM2-TM ... see from page 172					TMT2 ...
		(3,5x5)		(5x5)	(6x5)	(8x5)	(3,5x10)	(4x10)	(5/6x10)	(5/6x10)		(Ex11)R
		0830935		0830902	0830904	0830924	0830936	0830934	0830911	0830911		0802683
	Pitch	3.5	4	5	6	8	3.5	4	5	6	8	Continuous
Spring-cage connection terminal blocks		Flat marker groove					Tall marker groove					
279-1 ... - 279-9 ...	4											
280-1 ...	5											
280-5 ...	5											
280-5 ...	6											
280-6 ... - 280-9 ...	5											
281-1 ... - 281-6 ...	6											
281-6 ...	8											
281-6 ...	10											
281-9 ...	6											
282-1 ...	8											
282-1 ...	13											
282-6 ... - 282-9 ...	8											
283-1 ..., 283-6 ..., 283-9 ...	12											
284-1 ..., 284-6 ..., 284-9 ...	10											
285-1 ...	16											
285-1 ...	20											
285-1 ...	25											
285-1 ...	32											
285-4 ...	15											
285-4 ...	20											
285-6 ..., 285-9 ...	16											
709-3 ...	8											
769-1 ...	5											
769-1 ...	5											
769-2 ...	5											
769-5 ..., 769-6 ...	5											
780-6 ...	5											
781-6 ..., 781-6 ...	6											
782-6 ..., 782-9 ...	8											
783-6 ..., 783-9 ...	12											
785-6 ...	16											
811-3 ...	17.5											
869-1 ..., 869-3 ..., 870-1 ..., 870-4 ..., 870-5 ...	5											
870-6 ... - 870.9 ...	5											
880-6 ... - 880-9 ...	5											

 Pitch of Phoenix Contact marking material same as Wago

 Pitch of Phoenix Contact marking material smaller than Wago

 Continuous material can be cut to the pitch of the terminal block

Terminal marking for Weidmüller



		UC1-TMF ...				UC1-TM ... see from page 156											
		0821425	0821483	0821548		0821784		0821247		0821739							
		UCT1-TMF ...				UCT1-TM ... see from page 162											
		0829237	0829243			0829482	0803204	0829483									
		UM1-TMF				UM1...-TM... see from page 168											
		(3,5x5)	(5x5)	(6x5)	(8x5)	(3,5x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)		
		0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916		
Pitch		3.5	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12		
Screw connection terminal blocks		Flat marker groove				Tall marker groove											
AKE 2,5	5.1																
AKE 4	7																
AKZ 1,5, AKZ 2,5	5.1																
AKZ 4, DL ... 2,5	6.1																
KDKS 1	8																
MAK 2,5	6.2																
SAKS 2	27.6																
SAKS 4	24																
SAKS 5	28																
VLI 1,5	6.15																
WDK 1,5/R	3.5																
WDK 2,5	5.1																
WDK 4	6.1																
WDK 10	9.9																
WDKL 4	6.5																
WDL 2,5	6.1																
WDT 1,5	6.4																
WDTR 2,5	6.2																
WDU 1,5	5.1																
WDU 1,5/R	3.5																
WDU 2,5	5.1																
WDU 2,5/TC	10.2																
WDU 4	6.1																
WDU 6	7.9																
WDU 10	9.9																
WDU 16	11.9																
WDU 35	16																
WDU 50	18.5																
WDU 70	20.5																

Pitch of Phoenix Contact marking material
same as Weidmüller

Pitch of Phoenix Contact marking material
smaller than Weidmüller

Marking and labeling – MARKING system

Terminal marking

Terminal marking for Weidmüller



		UC1-TMF ... 157				UC1-TM ... see from page 156											
		0821425	0821483	0821548		0821784		0821247		0821739							
		UCT1-TMF ... 162				UCT1-TM ... see from page 162											
		0829237	0829243			0829482	0803204	0829483									
		UM1-TMF... 171				UM1...-TM... see from page 168											
		(3,5x5)	(5x5)	(6x5)	(8x5)	(3,5x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)		
		0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916		
Pitch		3.5	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12		
Screw connection terminal blocks		Flat marker groove				Tall marker groove											
WDU 95	27																
WDU 120	32																
WDU 240	36																
WMF 2,5	5.08																
WNT 2,5	5.1																
WNT 4	6.1																
WNT 6	7.9																
WNT 10	9.9																
WNT 16	12																
WNT 35	16																
WNT 70	20.5																
WPE 1,5	5.1																
WPE 1,5/R	3.5																
WPE 2,5	5.1																
WPE 4	6.1																
WPE 6	7.9																
WPE 10	9.9																
WPE 16	11.9																
WPE 35	16																
WPE 50	18.5																
WPE 70	20.5																
WPE 95	27																
WPE 120	32																
WPO 4	6																
WSI 4	9.1																
WSI 6	7.9																
WT 4	6.1																
WTD 6	7.9																
WTD 6/4 FF	11																

 Pitch of Phoenix Contact marking material same as Weidmüller

 Pitch of Phoenix Contact marking material smaller than Weidmüller

Terminal marking for Weidmüller



		UC1-TMF ... 157				UC1-TM ... see from page 156											
		0821425	0821483	0821548		0821784		0821247		0821739							
		UCT1-TMF ... 162				UCT1-TM ... see from page 162											
		0829237	0829243			0829482	0803204	0829483									
		UM1-TMF... 171				UM1...-TM... see from page 168											
		(3,5x5)	(5x5)	(6x5)	(8x5)	(3,5x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)		
		0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916		
Pitch		3.5	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12		
Screw connection terminal blocks		Flat marker groove				Tall marker groove											
WTL 4	6.1																
WTL 4/2	6																
WTL 6	7.9																
WTL 6 SL	7.9																
WTL 6/4 FF	11																
WTQ 6	7.9																
WTR 2,5	5.1																
WTR 4	6.1																
WTR 4 ...	6.1																
WTR 35	32																
Push-in connection terminal blocks		Flat marker groove				Tall marker groove											
PDK 2,5, PDL 4, PDU 2,5	5.1																
PDU 6/10	8.1																
PDU 16	12.1																
PEI 16	15																
PMak 4	5.1																
PNT 2,5	5.1																
PNT 6/10	8.1																
PNT 16	12.1																
PPE 2,5	5.1																
PPE 6	8.1																
PPE 16	12.1																
PSI 6/10	12.2																
PTD 6/10, PTL 6/10	8.1																
PTR 2,5	5.1																

 Pitch of Phoenix Contact marking material same as Weidmüller

 Pitch of Phoenix Contact marking material smaller than Weidmüller

Terminal marking

Terminal marking for Weidmüller



		UC1-TMF ... 157				UC1-TM...see from page 156									
		0821425	0821483	0821548		0821784		0821247		0821739					
		UCT1-TMF ... 162				UCT1-TM... see from page 162									
		0829237	0829243			0829482	0803204	0829483							
		UM1-TMF... 171				UM1...-TM... see from page 168									
		(3,5x5)	(5x5)	(6x5)	(8x5)	(3,5x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)
		0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916
Pitch		3.5	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12
Spring-cage connection terminal blocks		Flat marker groove				Tall marker groove									
ZDK 1,5	3.5														
ZDK 2,5	5.1														
ZDK 4	6.1														
ZDKPE 2,5	5.1														
ZDLD 2,5	5.1														
ZDT ... 2,5	5.1														
ZDU 1,5	3.5														
ZDU 2,5	5.1														
ZDU 4	6.1														
ZDU 6	8.1														
ZDU 10	10.1														
ZDU 16	12.1														
ZDU 35	16														
ZDUA 2,5, ZDUB 2,5	5.1														
ZEI 16	10														
ZEI 16-2	14														
ZIA 1,5	5.08														
ZMAK 2,5	5.1														
ZNT 4	6.1														
ZNT 6	8.1														
ZNT 16	10														
ZNT 35	16														
ZP 2,5	5.1														
ZP 4	6.1														
ZPE 1,5	3.5														
ZPE ... 2,5	5.1														
ZPE 4	6.1														
ZPE 6	8.1														
ZPE 10	10.1														
ZPE 16	12.1														
ZPE 35	16														
ZPV 1,5	5.1														



Pitch of Phoenix Contact marking material same as Weidmüller



Pitch of Phoenix Contact marking material smaller than Weidmüller

Terminal marking for Weidmüller



		UC1-TMF ... 157				UC1-TM...see from page 156											
		0821425	0821483	0821548		0821784		0821247		0821739							
		UCT1-TMF ... 162				UCT1-TM... see from page 162											
		0829237	0829243			0829482	0803204	0829483									
		UM1-TMF... 171				UM1...-TM... see from page 168											
		(3,5x5)	(5x5)	(6x5)	(8x5)	(3,5x12)	(5x10)	(5x10)	(5x12)	(6x10)	(6x10)	(6x12)	(8x10)	(8x12)	(12x10)		
		0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916		
Pitch		3.5	5	6	8	3.5	5	U 5	5	6	U 6	6	8	8	12		
Spring-cage connection terminal blocks		Flat marker groove				Tall marker groove											
ZRV 1,5	5.1																
ZRV 2,5	5.2																
ZSI 2,5	7.9																
ZSI 2x6	16																
ZSI 6	12.2																
ZT 2,5	5.1																
ZT 4	6.5																
ZTC 2,5, ZTCPE 2,5	5.1																
ZTD 6, ZTL 6	8																
ZTPE 2,5	5.1																
ZTPE 4	6.5																
ZTR 2,5	5.1																
ZTR 6	8.1																
ZTTR 2,5	5.1																
ZVL 1,5	5.08																
ZVLD 2,5	5.1																

Bolt connection terminal blocks		Flat marker groove				Tall marker groove											
WF 5	13																
WF 6, WF 6/2 BZ	17.8																
WF 8, WF 8/2 BZ	22.8																
WF 10, WF 10/2, BZ, WF 12	33.8																
WFF 35	27																
WFF 70	32																
WFF 120	38																
WFF 185, WFF 300	55																

Terminal marking

Terminal marking for Wieland



		UC3-TM... see from page 160		
		0822369	0822385	0822408
		UCT3-TM... see from page 163		
		0829251	0829252	
		UM3-TM...see from page 173		
		(5x8)	(6x8)	(8x8)
		0830917	0830915	0830929
	Pitch	5	6	8
Screw connection terminal blocks		Tall marker groove		
9700-A/10 ...	10			
9700-A/12 ...	12			
9700-A/16 ...	16			
9700-A/5 ...	5			
9700-A/6 ...	6			
9700-A/8 ...	8			
9785 ..., 9786 ...	12			
WK 2,5 ...	6			
WK 2,5 ... KOI ...	5			
WK 4 ...	6			
WK 4 ... THSI 5 ...	8			
WK 4 ... THSI 6,3 ...	10			
WK 6 ...	8			
WK 10 ...SI ...	12			
WK/3 ..., WK/4 ..., WK/5 ...	6			
WKM 2,5 ...	5			
WKM 4 ...	6			
WKN 6 ...	8			
WKN 10 ..., WKN 16	10			
WKN 35 ...	16			
WKN 70 ...	24			
WKN 150 ...	28			
WRT 6 ...	11			
WT 2,5 ...	5			
WT 4 ...	6			
WT 6 ...	8			
WT 10 ...	10			
WT 16 ...	12			
Push-in connection terminal blocks		Tall marker groove		
WTP 2,5 ...	5			
WTP 6 ...	8			



Pitch of Phoenix Contact marking material same as Wieland



Pitch of Phoenix Contact marking material smaller than Wieland

Terminal marking for Wieland



		ZB...	UC3-TM... see from page 160		
		0805001	0822369	0822385	0822408
		UC-TM...	UCT3-TM... see from page 163		
		0818111	0829251	0829252	
		UCT-TM...	UM3-TM...see from page 173		
			(5x8)	(6x8)	(8x8)
		0828732	0830917	0830915	0830929
	Pitch	4	5	6	8
Spring-cage connection terminal blocks		Tall marker groove			
WKF 1,5 ...	4				
WKF 1,5 ... KO ..., WKF 2,5 ...	5				
WKF 16 ...	12				
KF 35 ...	16				
WKFN 2,5 ...	5				
WKFN 4 ...	6				
WKFN 6 ...	8				
WKFN 10 ...	10				
WKFN 16 ...	12				
WKMF 2,5 ...	5				

 Pitch of Phoenix Contact marking material same as Wieland

 Pitch of Phoenix Contact marking material smaller than Wieland

Terminal marking

Terminal marking for Woertz



		UM8-TM ... see from page 175	
		(5x9)	(6x9)
		0830933	830931
	Pitch	5	6
Screw connection terminal blocks		Tall marker groove	
30150 ..., 30860 ..., 30870 ..., 30903..., 30973 ...	5		
30103 ..., 30108 ..., 30111 ..., 3012 ..., 30130 ..., 3043 ..., 30544/4 ..., 30800..., 3089 ..., 30902 ..., 30904..., 3301 ..., 3424 ..., 3430 ..., 3450 ..., 3880 ...	6		
3440 ...	6.5		
30544/6 ..., 3410 ..., 3452/6 ...	7		
30197 ..., 30290 ..., 3472 ..., 3852 ...	7.5		
30200 ..., 30291 ..., 30544/10 ..., 30930 ..., 3302 ..., 3425 ..., 3452/10 ..., 3477 ..., 3726 ..., 3857 ...	8		
30168 ..., 3017 ..., 30191 ..., 30228 ..., 30935 ..., 3303 ..., 3426 ..., 3436 ...	9		
30880 ...	10		
30146 ..., 30840 ..., 3304 ..., 3427 ..., 3452/16 ..., 3473 ..., 3780 ..., 3852 ...	11		
30841 ...	12		
30831 ...	12.5		
300 ..., 3727 ..., 30544/16 ..., 3437 ...	13		
3305 ..., 3428 ..., 3452/35 ...	14		
30832 ..., 30842 ...	14.5		
30544/35 ...	16		
30833 ..., 30834 ..., 30843 ...	16.5		
3438 ..., 3728 ...	18		
30844 ..., 3715 ...	21		
30550 ..., 3306 ..., 3429 ...	23		
3716 ...	34		

 Pitch of Phoenix Contact marking material same as Woertz

 Pitch of Phoenix Contact marking material smaller than Woertz

Terminal marking for Woertz



		UM8-TM ... see from page 175	
		(5x9)	(6x9)
		0830933	830931
Pitch		5	6
Spring-cage connection terminal blocks		Tall marker groove	
35310/3 ..., 35320/3 ..., 35330 ..., 35340/3 ..., 35350 ..., 35370 ..., 35400 ...	5		
33200 ..., 33300..., 353 .../4 ..., 35390 ..., 35410 ..., 383 ...	6		
35310/6 ..., 35330/6 ..., 35490 ...	8		
35310/10 ...	10		
35310/16 ...	12		

 Pitch of Phoenix Contact marking material
same as Woertz

 Pitch of Phoenix Contact marking material
smaller than Woertz

Terminal marking

UniCard terminal marking for tall marker groove

Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths
up to 8.2 mm



- The UC-TM ... UniCard marking range includes markers for all products with tall and flat marker grooves
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The multi-section marking strips can be easily separated and are easy to fit
- The markers support multi-line marking
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 60.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

[°C]

Wipe resistance

Components

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color

UniCard, for terminal blocks with a tall marker groove, 120-section, 15 individual labels per strip, for a terminal block width of 4.2 mm

white
red
yellow
blue

UniCard, for terminal blocks with a tall marker groove, 96-section, 12 individual labels per strip, for a terminal block width of 5.2 mm

white
red
yellow
blue

UniCard, for terminal blocks with a tall marker groove, 80-section, 10 individual labels per strip, for a terminal block width of 6.2 mm

white
red
yellow
blue

UniCard, for terminal blocks with a tall marker groove, 56-section, 7 individual labels per strip, for a terminal block width of 8.2 mm

white
red
yellow
blue

Type	Order No.	Pcs./Pkt.
UC-TM 4	0818111	10
UC-TM 4 RD	0818250	10
UC-TM 4 YE	0818234	10
UC-TM 4 BU	0818247	10
UC-TM 5	0818108	10
UC-TM 5 RD	0818302	10
UC-TM 5 YE	0818289	10
UC-TM 5 BU	0818292	10
UC-TM 6	0818085	10
UC-TM 6 RD	0818357	10
UC-TM 6 YE	0818331	10
UC-TM 6 BU	0818344	10
UC-TM 8	0818072	10
UC-TM 8 RD	0818409	10
UC-TM 8 YE	0818386	10
UC-TM 8 BU	0818399	10

Accessories

Magazine, for CMS-P1-PLOTTER and PLOTMARK

P1 UC-MAG 1	5146079	1



UniCard terminal marking for tall marker groove

PRINTED
FOR YOU



Markers for terminal block widths
up to 16 mm

General data		Technical data		
Can be marked with		BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER		
Material		PA		
Flammability rating in accordance with UL 94		V2		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
UniCard, for terminal blocks with a tall marker groove, 48-section, 6 individual labels per strip, for a terminal block width of 10.2 mm	white	UC-TM 10	0818069	10
	red	UC-TM 10 RD	0818454	10
	yellow	UC-TM 10 YE	0818438	10
	blue	UC-TM 10 BU	0818441	10
UniCard, for terminal blocks with a tall marker groove, 40-section, 5 individual labels per strip, for a terminal block width of 12 mm	white	UC-TM 12	0819194	10
	red	UC-TM 12 RD	0817701	10
	yellow	UC-TM 12 YE	0819204	10
	blue	UC-TM 12 BU	0817785	10
UniCard, for terminal blocks with a tall marker groove, 32-section, 4 individual labels per strip, for a terminal block width of 16 mm	white	UC-TM 16	0819217	10
	red	UC-TM 16 RD	0817798	10
	yellow	UC-TM 16 YE	0819220	10
	blue	UC-TM 16 BU	0817769	10
		Accessories		
Magazine, for CMS-P1-PLOTTER and PLOTMARK		P1 UC-MAG 1	5146079	1

Marking and labeling – MARKING system

Terminal marking

UniCard terminal marking for flat marker groove

Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths
up to 8.2 mm

- The UC-TMF ... UniCard marking range includes markers for all products with tall and flat marker grooves
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 60.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

[°C]

Wipe resistance

Components

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description Color

UniCard, for terminal blocks with a flat marker groove, 120-section, 15 individual labels per strip, for a terminal block width of 4.2 mm

white

red

yellow

blue

UC-TMF 4

UC-TMF 4 RD

UC-TMF 4 YE

UC-TMF 4 BU

0818166

0818506

0818483

0818496

10

10

10

10

UniCard, for terminal blocks with a flat marker groove, 96-section, 12 individual labels per strip, for a terminal block width of 5.2 mm

white

red

yellow

blue

UC-TMF 5

UC-TMF 5 RD

UC-TMF 5 YE

UC-TMF 5 BU

0818153

0818551

0818535

0818548

10

10

10

10

UniCard, for terminal blocks with a flat marker groove, 80-section, 10 individual labels per strip, for a terminal block width of 5.2 mm, lettering field size: 5 x 7 mm

white

UC-TMF 5 (5X7)

0820044

10

UniCard, for terminal blocks with a flat marker groove, 80-section, 10 individual labels per strip, for a terminal block width of 6.2 mm

white

red

yellow

blue

UC-TMF 6

UC-TMF 6 RD

UC-TMF 6 YE

UC-TMF 6 BU

0818140

0818603

0818580

0818593

10

10

10

10

UniCard, for terminal blocks with a flat marker groove, 64-section, 7 individual labels per strip, for a terminal block width of 8.2 mm

white

red

yellow

blue

UC-TMF 8

UC-TMF 8 RD

UC-TMF 8 YE

UC-TMF 8 BU

0818137

0818658

0818632

0818645

10

10

10

10

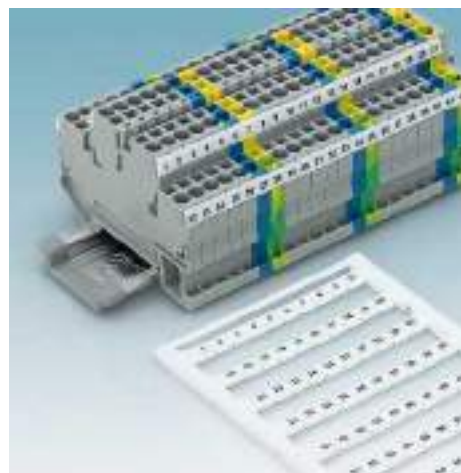
Accessories

Magazine, for CMS-P1-PLOTTER and PLOTMARK

P1 UC-MAG 4

5146105

1



UniCard terminal marking for flat marker groove

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Markers for terminal block widths
up to 16 mm

General data		Technical data		
Can be marked with		BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER		
Material		PA		
Flammability rating in accordance with UL 94		V2		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
UniCard, for terminal blocks with a flat marker groove, 48-section, 6 individual labels per strip, for a terminal block width of 10.2 mm	white	UC-TMF 10	0818124	10
	red	UC-TMF 10 RD	0818700	10
	yellow	UC-TMF 10 YE	0818687	10
	blue	UC-TMF 10 BU	0818690	10
UniCard, for terminal blocks with a flat marker groove, 40-section, 5 individual labels per strip, for a terminal block width of 12 mm	white	UC-TMF 12	0819233	10
	red	UC-TMF 12 RD	0817840	10
	yellow	UC-TMF 12 YE	0819246	10
	blue	UC-TMF 12 BU	0817853	10
UniCard, for terminal blocks with a flat marker groove, 32-section, 4 individual labels per strip, for a terminal block width of 16 mm	white	UC-TMF 16	0819262	10
	red	UC-TMF 16 RD	0817824	10
	yellow	UC-TMF 16 YE	0819259	10
	blue	UC-TMF 16 BU	0817905	10
		Accessories		
Magazine, for CMS-P1-PLOTTER and PLOTMARK		P1 UC-MAG 4	5146105	1

Terminal marking

UniCard terminal marking
for marking stud holder

Can be marked using:



UV LED technology



Plotter



Stud-type markers for terminal block widths
of 5.2 / 7.5 / 10 mm

- The UC-TMN ... UniCard marking range includes markers for products with a marking stud holder, such as mini terminal blocks, transformer terminal blocks or COMBICON PCB connection terminal blocks
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The multi-section marking strips can be easily separated and are easy to fit
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:
An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 60.

General data			Technical data		
Can be marked with			BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER		
Material			PA		
Flammability rating in accordance with UL 94			V2		
Temperature range			-40 ... 120		
Wipe resistance			DIN EN 61010-1 (VDE 0411-1)		
Components			Free from silicone and halogen		
Description			Ordering data		
UniCard, for marking transformer terminal blocks			Type	Order No.	Pcs./Pkt.
96-section, 12 individual labels per strip		white	UC-TMN 5,2	0822945	10
64-section, 8 individual labels per strip		white	UC-TMN 7,5	0821823	10
48-section, 6 individual labels per strip		white	UC-TMN 10	0828554	10
Magazine, for CMS-P1-PLOTTER and PLOTMARK			Accessories		
			P1 UC-MAG 1	5146079	1



Terminal marking

Zack marker strip terminal marking for tall marker groove

Can be marked using:



Plotter



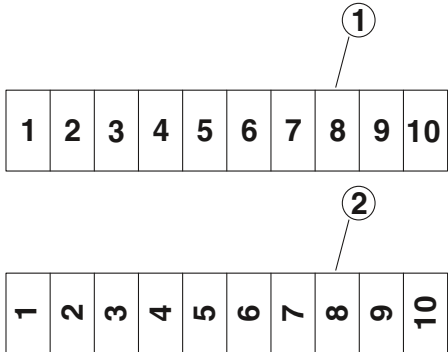
Markers for a terminal block width of 3.5 mm

- The ZB zack marker strip system marks terminal blocks and electronics modules with a tall marker groove
- The multi-section marking strips can be easily separated and are easy to fit
- Different pitches are available on request
- Unprinted zack marker strips can be individually marked with the plotter or manually marked by hand
- Marking service: Phoenix Contact can custom-mark many zack marker strip markers according to your requirements

Selection of marking direction

- Please take care to select the correct marking direction for printed products
- ① “Printed horizontally” marking, text is the right way round for a horizontally arranged terminal strip
- ② “Printed vertically” marking, text is the right way round for a vertically arranged terminal strip

Notes:
1) Each unit pack contains 10 identically marked strips.



General data			Technical data		
Can be marked with			PLOTMARK • CMS-P1-PLOTTER		
Material			PA		
Flammability rating in accordance with UL 94			V2		
Temperature range			-40 ... 100		
Wipe resistance			DIN EN 61010-1 (VDE 0411-1)		
Components			Free from silicone and halogen		
Ordering data			Ordering data		
Description		Color	Type	Order No.	Pcs./Pkt.
Zack marker strip, unprinted, 10-section: each pack contains enough to mark 100 terminal blocks					
as above, but large pack, contains enough to mark 1000 terminal blocks		white white	ZB 3,5:UNBEDRUCKT	0829414	10
Zack marker strip, printed horizontally, 10-section, with consecutive numbers, e.g., 1 - 10, 11 - 20, and so on up to 91 - 100, (ZB 3,5 and ZB 4, max. 2 digits) ¹⁾		white			
Zack marker strip, printed horizontally, 10-section, with same numbers, e.g., 1/1/1, 2/2/2, and so on up to 100/100/100 ¹⁾		white	ZB 3,5,LGS:FORTL.ZAHLEN	0801404	10
Zack marker strip, printed horizontally, 10-section: with L1, L2, L3, N, PE ¹⁾		white			
printed horizontally, 10-section: with U, V, W, N,		white white			
Zack marker strip, printed horizontally, 10-section, even numbers, e.g., 2-20, 22-40, and so on up to 82-100		white			
Zack marker strip, printed horizontally, 10-section, odd numbers, e.g., 1-19, 21-39, and so on up to 81-99		white			
Zack marker strip, printed horizontally, 10-section, upper case A-Z, e.g., A/A/A,B/B/B, and so on up to Z/Z/Z		white			
Zack marker strip, printed horizontally, 10-section, L1, L2, L3, PE, +, -, symbols		white			
Zack marker strip, printed vertically, 10-section, even numbers, e.g., 2-20, 22-40, and so on up to 82-100		white			
Zack marker strip, printed vertically, 10-section, odd numbers, e.g., 1-19, 21-39, and so on up to 81-99		white			
Zack marker strip, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, and so on up to 91-100 ¹⁾		white	ZB 3,5,QR:FORT.ZAHLEN	0801405	10
Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER and PLOTMARK			CMS-P1-M/ZB	5144699	1

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Markers for a terminal block width
of 4.2 mm

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Markers for a terminal block width
of 5.2 mm

PRINTED
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Markers for a terminal block width
of 5.08 mm

Technical data
PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs./Pkt.

ZB 4 :UNBEDRUCKT	0805001	10
ZB 4/WH-100:UNBEDRUCKT	0805810	100

ZB 4,LGS:FORTL.ZAHLEN	0805739	10

ZB 4,QR:FORTL.ZAHLEN	0805807	10

Accessories		
CMS-P1-M/ZB	5144699	1

Technical data
PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs./Pkt.

ZB 5 :UNBEDRUCKT	1050004	10
ZB 5/WH-100:UNBEDRUCKT	5060906	100

ZB 5,LGS:FORTL.ZAHLEN	1050017	10

ZB 5,LGS:GLEICHE ZAHLEN	1050033	10

ZB 5,LGS:L1-N,PE	1050415	10

ZB 5,LGS:GERADE ZAHLEN	0800035	10

ZB 5,LGS:UNGERADE ZAHLEN	0800019	10

ZB 5,LGS:GROSSBUCHST.	1050059	10

ZB 5,LGS:SYMBOLE	1050091	10

ZB 5,QR:GERADE ZAHLEN	1052811	10

ZB 5,QR:UNGERADE ZAHLEN	1052824	10

ZB 5,QR:FORTL.ZAHLEN	1050020	10

Accessories		
CMS-P1-M/ZB	5144699	1

Technical data
PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs./Pkt.

ZB 5,08:UNBEDRUCKT	0809793	10

ZB 5,08,LGS:FORTL.ZAHLEN	0809803	10

ZB 5,08,LGS:L1-N,PE	0809832	10
ZB 5,08,LGS:U-N	0809845	10

ZB 5,08,QR:FORTL.ZAHLEN	0809858	10

Accessories		
CMS-P1-M/ZB	5144699	1

Marking and labeling – MARKING system

Terminal marking

Zack marker strip terminal marking for tall marker groove

- The ZB zack marker strip system marks terminal blocks and electronics modules with a tall marker groove
- Marking service: Phoenix Contact can custom-mark many zack marker strip markers according to your requirements

Notes:

1) Each unit pack contains 10 identically marked strips.

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Markers for a terminal block width of 5.8 mm

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Markers for a terminal block width of 6.2 mm

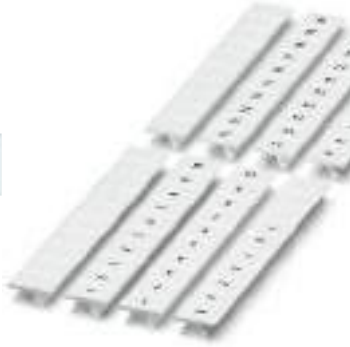
General data			Technical data			Technical data		
Can be marked with			PLOTMARK • CMS-P1-PLOTTER			PLOTMARK • CMS-P1-PLOTTER		
Material			PA			PA		
Flammability rating in accordance with UL 94			V2			V2		
Temperature range		[°C]	-40 ... 100			-40 ... 100		
Wipe resistance			DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components			Free from silicone and halogen			Free from silicone and halogen		
Ordering data			Ordering data			Ordering data		
Description	Color		Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Zack marker strip, unprinted, 10-section: each pack contains enough to mark 100 terminal blocks								
as above, but large pack, contains enough to mark 1000 terminal blocks	white		ZB 5,8:UNBEDRUCKT	2715209	10	ZB 6:UNBEDRUCKT	1051003	10
	white					ZB 6/WH-100:UNBEDRUCKT	5060935	100
Zack marker strip, printed horizontally, 10-section, with consecutive numbers, e.g., 1-10, 11-20, and so on up to 91-100								
	white					ZB 6,LGS:FORTL.ZAHLEN	1051016	10
Zack marker strip, printed horizontally, 10-section, with same numbers, e.g., 1/1/1, 2/2/2, and so on up to 100/100/100								
	white					ZB 6,LGS:GLEICHE ZAHLEN	1051032	10
Zack marker strip, printed horizontally, 10-section: with L1, L2, L3, N, PE								
	white					ZB 6,LGS:L1-N,PE	1051414	10
printed horizontally, 10-section: with U, V, W, N	white					ZB 6,LGS:U-N	1051430	10
Zack marker strip, printed horizontally, 10-section, even numbers, e.g., 2-20, 22-40, and so on up to 82-100								
	white					ZB 6,LGS:GERADE ZAHLEN	1052808	10
Zack marker strip, printed horizontally, 10-section, odd numbers, e.g., 1-19, 21-39, and so on up to 81-99								
	white					ZB 6,LGS:UNGERADE ZAHLEN	1052798	10
Zack marker strip, printed horizontally, 10-section, upper case A-Z, e.g., A/A/A,B/B/B, and so on up to Z/Z/Z								
	white					ZB 6,LGS:GROSSBUCHSTABEN	1051058	10
Zack marker strip, printed horizontally, 10-section, L1, L2, L3, PE, +, -, symbols								
	white					ZB 6,LGS:SYMBOLE	1051090	10
Zack marker strip, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, and so on up to 91-100								
	white					ZB 6,QR:FORTL.ZAHLEN	1051029	10
Zack marker strip, printed vertically, 10-section, even numbers, e.g., 2-20, 22-40, and so on up to 82-100								
	white					ZB 6,QR:GERADE ZAHLEN	1052785	10
Zack marker strip, printed vertically, 10-section, odd numbers, e.g., 1-19, 21-39, and so on up to 81-99								
	white					ZB 6,QR:UNGERADE ZAHLEN	1052772	10
Accessories			Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER and PLOTMARK			CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1

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Markers for a terminal block width
of 6.6 mm

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FOR YOU



Markers for a terminal block width
of 7.5 mm

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Markers for a terminal block width
of 7.62 mm

Technical data
PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
ZB 6,6:UNBEDRUCKT	1052332	10
ZB 6,6,LGS:FORTL.ZAHLEN	1052345	10

Accessories		
CMS-P1-M/ZB	5144699	1

Technical data
PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
ZB 7,5:UNBEDRUCKT	0803948	10

Accessories		
CMS-P1-M/ZB	5144699	1

Technical data
PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
ZB 7,62:UNBEDRUCKT	1054000	10
ZB 7,62/WH-100:UNBEDRUCKT	5060922	100
ZB 7,62,LGS:FORTL.ZAHLEN	1054233	10

Accessories		
CMS-P1-M/ZB	5144699	1

Marking and labeling – MARKING system

Terminal marking

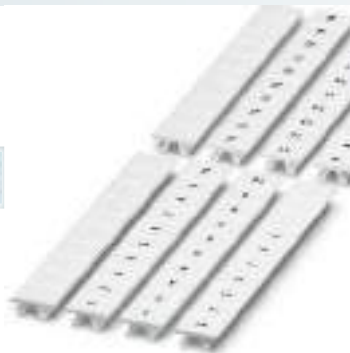
Zack marker strip terminal marking for tall marker groove

- The ZB zack marker strip system marks terminal blocks and electronics modules with a tall marker groove
- Marking service: Phoenix Contact can custom-mark many zack marker strip markers according to your requirements

Notes:

1) Each unit pack contains 10 identically marked strips.

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Markers for a terminal block width of 8.2 mm

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Markers for a terminal block width of 9 mm

General data			Technical data			Technical data		
Can be marked with			CMS-P1-PLOTTER • PLOTMARK			PLOTMARK • CMS-P1-PLOTTER		
Material			PA			PA		
Flammability rating in accordance with UL 94			V2			V2		
Temperature range		[°C]	-40 ... 100			-40 ... 100		
Wipe resistance			DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components			Free from silicone and halogen			Free from silicone and halogen		
Ordering data			Ordering data			Ordering data		
Description	Color		Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Zack marker strip, unprinted, 10-section: each pack contains enough to mark 100 terminal blocks								
as above, but large pack, contains enough to mark 1000 terminal blocks	white		ZB 8:UNBEDRUCKT	1052002	10	ZB 9:UNBEDRUCKT	0829127	10
5-section	white		ZB 8/WH-100:UNBEDRUCKT	5060896	100			
Zack marker strip, printed horizontally, 10-section, with consecutive numbers, e.g., 1-10, 11-20, and so on up to 91-100 ¹⁾	white							
Zack marker strip, printed horizontally, 10-section: with L1, L2, L3, N, PE ¹⁾	white		ZB 8,LGS:FORTL.ZAHLEN	1052015	10			
printed horizontally, 10-section: with U, V, W, N	white		ZB 8,LGS:L1-N,PE	1052413	10			
printed horizontally, 5-section: with L1, L2, L3, N, PE	white							
Zack marker strip, printed horizontally, 10-section, L1, L2, L3, PE, +, -, symbols	white		ZB 8,LGS:SYMBOLE	1052099	10			
Zack marker strip, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, and so on up to 91-100 ¹⁾	white		ZB 8,QR:FORTL.ZAHLEN	1052028	10			
Accessories			Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER and PLOTMARK			CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1

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Markers for a terminal block width
of 10.2 mm

PRINTED
FOR YOU



Markers for a terminal block width
of 12 mm

PRINTED
FOR YOU



Markers for a terminal block width
of 13 mm

Technical data		
PLOTMARK • CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZB 10:UNBEDRUCKT	1053001	10
ZB10/WH-100:UNBEDRUCKT	5060883	100
ZB10,LGS:FORTL.ZAHLEN	1053014	10
ZB10,LGS:L1-N,PE	1053412	10
ZB10,LGS:U-N	1053438	10
ZB10,LGS:SYMBOLE	1053098	10
ZB10,QR:FORTL.ZAHLEN	1053027	10
Accessories		
CMS-P1-M/ZB	5144699	1

Technical data		
PLOTMARK • CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZB 12:UNPRINTED	0812120	10
ZB 12,LGS:L1-N,PE	0812146	10
Accessories		
CMS-P1-M/ZB	5144699	1

Technical data		
PLOTMARK • CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZB 13:UNBEDRUCKT	0829131	10
Accessories		
CMS-P1-M/ZB	5144699	1

Marking and labeling – MARKING system

Terminal marking

Zack marker strip terminal marking for tall marker groove

- The ZB zack marker strip system marks terminal blocks and electronics modules with a tall marker groove
- Marking service: Phoenix Contact can custom-mark many zack marker strip markers according to your requirements

Notes:

¹⁾ Each unit pack contains 10 identically marked strips.

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Markers for a terminal block width of 14 mm

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Markers for a terminal block width of 15 mm

General data

Can be marked with
Material
Flammability rating in accordance with UL 94
Temperature range [°C]
Wipe resistance
Components

Technical data

PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description Color

Zack marker strip, unprinted, 5-section:
each pack contains enough to mark 50 terminal blocks

white

Zack marker strip, printed horizontally, 5-section:
with L1, L2, L3, N, PE¹⁾

white

Type	Order No.	Pcs./Pkt.
ZB 14:UNPRINTED	0820277	10

Accessories

Magazine, for CMS-P1-PLOTTER and PLOTMARK

CMS-P1-M/ZB	5144699	1

Technical data

PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type Order No. Pcs./Pkt.

ZB 15:UNBEDRUCKT 0811972 10

ZB 15,LGS:L1-N,PE 0811998 10

Accessories

CMS-P1-M/ZB	5144699	1



Markers for a terminal block width
of 16 mm



Markers for a terminal block width
of 16.3 mm



Markers for a terminal block width
of 17 mm

Technical data		
PLOTMARK • CMS-P1-PLOTTER		
PA		
V2		
-		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZB 16:UNPRINTED	0827461	10
ZB 16,LGS:L1-N,PE	0827462	10
Accessories		
CMS-P1-M/ZB	5144699	1

Technical data		
PLOTMARK • CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZB 16,3:UNPRINTED	0820222	10
Accessories		
CMS-P1-M/ZB	5144699	1

Technical data		
PLOTMARK • CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZB 17:UNBEDRUCKT	0829391	10
Accessories		
CMS-P1-M/ZB	5144699	1

Marking and labeling – MARKING system

Terminal marking

Zack marker strip terminal marking for tall marker groove

- The ZB zack marker strip system marks terminal blocks and electronics modules with a tall marker groove
- Marking service: Phoenix Contact can custom-mark many zack marker strip markers according to your requirements

Notes:

1) Each unit pack contains 10 identically marked strips.

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Markers for a terminal block width of 18 mm

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Markers for a terminal block width of 20.3 mm

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

PLOTMARK • CMS-P1-PLOTTER

PA

V2

-40 ... 100

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
ZB 18:UNBEDRUCKT	0811833	10
ZB 18,LGS:L1-N,PE	0811846	10

Accessories

CMS-P1-M/ZB	5144699	1

Technical data

PLOTMARK • CMS-P1-PLOTTER

PA

V2

-40 ... 100

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
ZB 20,3:UNPRINTED	0820248	10

Accessories

CMS-P1-M/ZB	5144699	1

Description	Color
Zack marker strip, unprinted, 5-section: each pack contains enough to mark 50 terminal blocks	white
4-section, for 40 terminal blocks	white
Zack marker strip, printed horizontally, 5-section, with L1, L2, L3, N, PE ¹⁾	white
printed horizontally, 4-section, with L1, L2, L3, N, PE	white

Magazine, for CMS-P1-PLOTTER and PLOTMARK

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Markers for a terminal block width
of 21.1 mm

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FOR YOU



Markers for a terminal block width
of 22 mm

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Markers for a terminal block width
of 25 mm

Technical data		
PLOTMARK • CMS-P1-PLOTTER		
- V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZB 21,1:UNBEDRUCKT	0829456	10
Accessories		
CMS-P1-M/ZB	5144699	1

Technical data		
PLOTMARK • CMS-P1-PLOTTER		
PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZB 22:UNBEDRUCKT	0811862	10
ZB 22,LGS:L1-N,PE	0811875	10
Accessories		
CMS-P1-M/ZB	5144699	1

Technical data		
PLOTMARK • CMS-P1-PLOTTER • X-PEN 0,35 • P-PEN		
PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZB 25:UNPRINTED	0802751	10
Accessories		
CMS-P1-M/ZB	5144699	1

Terminal marking

Zack marker strip terminal marking for flat marker groove

Can be marked using:



Plotter



Markers for a terminal block width of 3.5 mm

- The ZBF zack marker strip system marks terminal blocks and electronics modules with a flat marker groove
- The multi-section marking strips can be easily separated and are easy to fit
- Different pitches are available on request
- Unprinted zack marker strips can be individually marked with the plotter or manually marked by hand
- Marking service: Phoenix Contact can custom-mark many zack marker strip markers according to your requirements

Selection of marking direction

- Please take care to select the correct marking direction for printed products
- ① “Printed horizontally” marking, text is the right way round for a horizontally arranged terminal strip
- ② “Printed vertically” marking, text is the right way round for a vertically arranged terminal strip

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 60.

¹⁾ Each unit pack contains 10 identically marked strips.

General data	
Can be marked with	
Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

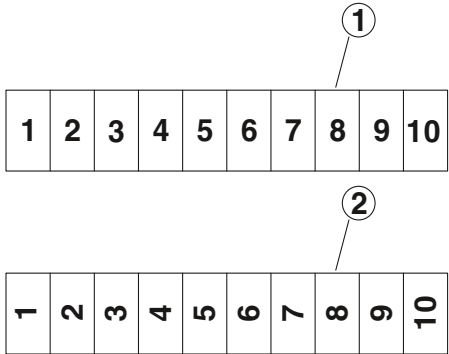
Description	Color
Zack marker strip, unprinted, 10-section: pack contains enough to mark 100 terminal blocks	
as above, but large pack, contains enough to mark 1000 terminal blocks	white white
Zack marker strip, flat, printed horizontally, 10-section, with consecutive numbers, e.g., 1-10, 11-20, and so on up to 91-100, (ZBF 3,5 and ZBF 4, max. 2 digits) ¹⁾	white
Zack marker strip, flat, printed horizontally, 10-section, with even numbers, e.g., 2-20, 22-40, and so on up to 82-100, (ZBF 4, max. 2 digits) ¹⁾	white
Zack marker strip, flat, printed horizontally, 10-section, with odd numbers, e.g., 1-19, 21-39, and so on up to 81-99, (ZBF 4, max. 2 digits) ¹⁾	white
Zack marker strip, 10-section, printed horizontally: with L1, L2, L3, N, PE	white
Zack marker strip, flat, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, and so on up to 91-100 ¹⁾	white

Technical data	
PLOTMARK • CMS-P1-PLOTTER	
PA	
V2	
-40 ... 100	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Ordering data		
Type	Order No.	Pcs./Pkt.
ZBF 3,5:UNBEDRUCKT	0829392	10
ZBF 3,5,LGS:FORTL.ZAHLEN	0801406	10
ZBF 3,5,QR:FORTL.ZAHLEN	0801407	10

Accessories		
CMS-P1-M/ZBF	5144709	1

Magazine, for CMS-P1-PLOTTER and PLOTMARK

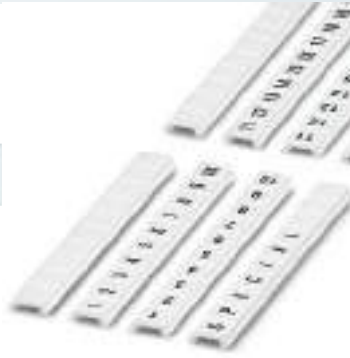


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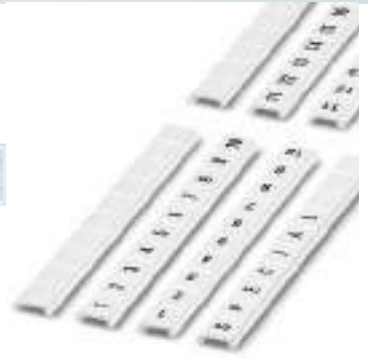
Markers for a terminal block width
of 4.2 mm

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Markers for a terminal block width
of 5.2 mm

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Markers for a terminal block width
of 6.2 mm

Technical data
CMS-P1-PLOTTER • PLOTMARK
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
ZBF 4:UNBEDRUCKT	0808587	10
ZBF 4/WH-100:UNBEDRUCKT	0808613	100
ZBF 4,LGS:FORTL.ZAHLEN	0808626	10
ZBF 4,LGS:GERADE ZAHLEN	0810818	10
ZBF 4,LGS:UNGERADE ZAHLEN	0810850	10
ZBF 4,QR:FORTL.ZAHLEN	0808820	10

Accessories

CMS-P1-M/ZBF	5144709	1

Technical data
PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
ZBF 5:UNBEDRUCKT	0808642	10
ZBF 5/WH-100:UNBEDRUCKT	0808668	100
ZBF 5,LGS:FORTL.ZAHLEN	0808671	10
ZBF 5,LGS:GERADE ZAHLEN	0810821	10
ZBF 5,LGS:UNGERADE ZAHLEN	0810863	10
ZBF 5,LGS:L1-N,PE	0809528	10
ZBF 5,QR:FORTL.ZAHLEN	0808697	10

Accessories

CMS-P1-M/ZBF	5144709	1

Technical data
PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
ZBF 6:UNBEDRUCKT	0808710	10
ZBF 6/WH-100:UNBEDRUCKT	0808736	100
ZBF 6,LGS:FORTL.ZAHLEN	0808749	10
ZBF 6,LGS:GERADE ZAHLEN	0810834	10
ZBF 6,LGS:UNGERADE ZAHLEN	0810876	10
ZBF 6,QR:FORTL.ZAHLEN	0808765	10

Accessories

CMS-P1-M/ZBF	5144709	1

Marking and labeling – MARKING system

Terminal marking

Zack marker strip terminal marking for flat marker groove

- The ZBF zack marker strip system marks terminal blocks and electronics modules with a flat marker groove
- Marking service: Phoenix Contact can custom-mark many zack marker strip markers according to your requirements

Notes:

1) Each unit pack contains 10 identically marked strips.

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Markers for a terminal block width of 7.5 mm

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Markers for a terminal block width of 8.2 mm

General data			Technical data			Technical data		
Can be marked with			PLOTMARK • CMS-P1-PLOTTER			PLOTMARK • CMS-P1-PLOTTER		
Material			PA			PA		
Flammability rating in accordance with UL 94			V2			V2		
Temperature range		[°C]	-40 ... 100			-40 ... 100		
Wipe resistance			DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components			Free from silicone and halogen			Free from silicone and halogen		
Ordering data			Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.	Type
Zack marker strip, unprinted, 10-section: pack contains enough to mark 100 terminal blocks								
as before, but in large pack, contains enough to mark 1000 terminal blocks	white	ZBF 7,5:UNBEDRUCKT	0809942	10	ZBF 8:UNBEDRUCKT	0808781	10	
5-section, for 50 terminal blocks	white				ZBF 8/WH-100:UNBEDRUCKT	0808794	100	
as before, but in large pack, contains enough to mark 500 terminal blocks	white							
Zack marker strip, flat, printed horizontally, 10-section, with consecutive numbers, e.g., 1-10, 11-20, and so on up to 91-100 ¹⁾								
Markers for a terminal block width of 10.2 mm	white	ZBF 7,5,LGS:FORTL.ZAHLEN	0809955	10	ZBF 8,LGS:FORTL.ZAHLEN	0808804	10	
Zack marker strip, flat, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, and so on up to 91-100 ¹⁾								
	white	ZBF 7,5,QR:FORTL.ZAHLEN	0809968	10				
Accessories			Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER and PLOTMARK								
		CMS-P1-M/ZBF	5144709	1	CMS-P1-M/ZBF	5144709	1	

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Markers for a terminal block width
of 9 mm

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Markers for a terminal block width
of 10.2 mm

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Markers for a terminal block width
of 12 mm

Technical data
PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs./Pkt.
ZBF 9:UNBEDRUCKT	0829129	10

Accessories		
CMS-P1-M/ZBF	5144709	1

Technical data
CMS-P1-PLOTTER • PLOTMARK
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs./Pkt.
ZBF10:UNBEDRUCKT	0809997	10
ZBF10,LGS:FORTL.ZAHLEN	0810009	10
ZBF10,QR:FORTL.ZAHLEN	0810025	10

Accessories		
CMS-P1-M/ZBF	5144709	1

Technical data
PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs./Pkt.
ZBF 12:UNBEDRUCKT	0809735	10
ZBF 12/WH-100:UNBEDRUCKT	0823672	100

Accessories		
CMS-P1-M/ZBF	5144709	1

Marking and labeling – MARKING system

Terminal marking

Zack marker strip terminal marking for flat marker groove

- The ZBF zack marker strip system marks terminal blocks and electronics modules with a flat marker groove
- Marking service: Phoenix Contact can custom-mark many zack marker strip markers according to your requirements

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Markers for a terminal block width of 13 mm

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Markers for a terminal block width of 15 mm

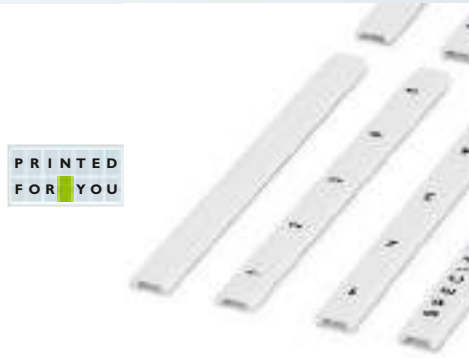
General data	
Can be marked with	
Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	
Description	
Color	
Zack marker strip, unprinted, 5-section: pack contains enough to mark 50 terminal blocks	
white	
Magazine, for CMS-P1-PLOTTER and PLOTMARK	

Technical data		
PLOTMARK • CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZBF 13:UNBEDRUCKT	0829133	10
Accessories		
CMS-P1-M/ZBF	5144709	1

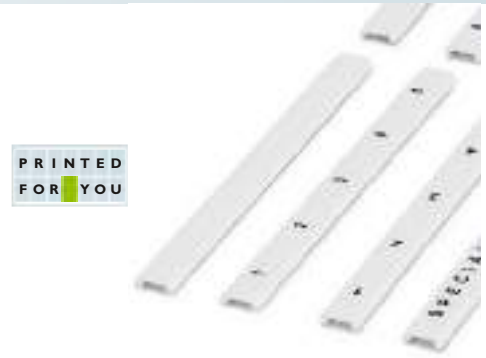
Technical data		
PLOTMARK • CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZBF 15:UNBEDRUCKT	0811202	10
Accessories		
CMS-P1-M/ZBF	5144709	1



Markers for a terminal block width
of 16.3 mm



Markers for a terminal block width
of 17 mm



Markers for a terminal block width
of 19.7 mm

Technical data		
PLOTMARK • CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZBF 16:UNPRINTED	0827464	10
Accessories		
CMS-P1-M/ZBF	5144709	1

Technical data		
PLOTMARK • CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZBF 17:UNBEDRUCKT	0815020	10
Accessories		
CMS-P1-M/ZBF	5144709	1

Technical data		
PLOTMARK • CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
ZBF 19,7:UNBEDRUCKT	0810627	10
Accessories		
CMS-P1-M/ZBF	5144709	1

Terminal marking

UniCard terminal marking for tall marker groove



- The UCT-TM ... UniCard marking range includes markers for products with tall marker grooves
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
- The multi-section marking strips can be easily separated and are easy to fit
- The sheets provide space for including function texts
- The UCT sheets can also be used with the THERMOMARK CARD-UCT-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 60.

Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer

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Markers for a terminal block width
of up to 6.2 mm

General data

Can be marked with

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color
UniCard, for terminal blocks with a tall marker groove, 102-section, 17 individual labels per strip, for a terminal block width of 3.5 mm	white red yellow blue
UniCard, for terminal blocks with a tall marker groove, 102-section, 17 individual labels per strip, lettering field size: 3.5 x 7 mm	white
UniCard, for terminal blocks with a tall marker groove, 84-section, 14 individual labels per strip, for a terminal block width of 4.2 mm	white red yellow blue
UniCard, for terminal blocks with a tall marker groove, 72-section, 12 individual labels per strip, for a terminal block width of 5.2 mm	white red yellow blue
UniCard, for terminal blocks with a tall marker groove, 60-section, 10 individual labels per strip, for a terminal block width of 6.2 mm	white red yellow blue

Type	Order No.	Pcs./Pkt.
UCT-TM 3,5	0829484	10
UCT-TM 3,5 RD	0829505	10
UCT-TM 3,5 YE	0829485	10
UCT-TM 3,5 BU	0829508	10
UCTU-TM (3,5X7)	0803666	10
UCT-TM 4	0828732	10
UCT-TM 4 RD	0829149	10
UCT-TM 4 YE	0828733	10
UCT-TM 4 BU	0829152	10
UCT-TM 5	0828734	10
UCT-TM 5 RD	0829154	10
UCT-TM 5 YE	0828735	10
UCT-TM 5 BU	0829157	10
UCT-TM 6	0828736	10
UCT-TM 6 RD	0829159	10
UCT-TM 6 YE	0828737	10
UCT-TM 6 BU	0829162	10

Magazine for THERMOMARK CARD and THERMOMARK PRIME
for accommodating UCT-TM..., UCT1(U)-TM..., UCT5-TM..., UCT-EM (5x10), UCT-EM (6x10)

Accessories

TMP-UCT-MAG1	0803342	1



UniCard terminal marking for tall marker groove

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Markers for terminal block widths
up to 16 mm

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

[°C]

Wipe resistance

Components

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR •
BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME •
THERMOMARK CARD 2.0

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Technical data

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniCard , for terminal blocks with a tall marker groove, 48-section, 8 individual labels per strip, for a terminal block width of 7.62 mm				
	white	UCT-TM 7,62	0828738	10
	red	UCT-TM 7,62 RD	0829510	10
	yellow	UCT-TM 7,62 YE	0828739	10
	blue	UCT-TM 7,62 BU	0829513	10
UniCard , for terminal blocks with a tall marker groove, 42-section, 7 individual labels per strip, for a terminal block width of 8.2 mm				
	white	UCT-TM 8	0828740	10
	red	UCT-TM 8 RD	0829164	10
	yellow	UCT-TM 8 YE	0828741	10
	blue	UCT-TM 8 BU	0829167	10
UniCard , for terminal blocks with a tall marker groove, 36-section, 6 individual labels per strip, for a terminal block width of 10.2 mm				
	white	UCT-TM 10	0829142	10
	red	UCT-TM 10 RD	0829169	10
	yellow	UCT-TM 10 YE	0829143	10
	blue	UCT-TM 10 BU	0829172	10
UniCard , for terminal blocks with a tall marker groove, 30-section, 5 individual labels per strip, for a terminal block width of 12 mm				
	white	UCT-TM 12	0829144	10
	red	UCT-TM 12 RD	0829174	10
	yellow	UCT-TM 12 YE	0829145	10
	blue	UCT-TM 12 BU	0829177	10
UniCard , for terminal blocks with a tall marker groove, 18-section, 3 individual labels per strip, for a terminal block width of 16 mm				
	white	UCT-TM 16	0829146	10
	red	UCT-TM 16 RD	0829179	10
	yellow	UCT-TM 16 YE	0829147	10
	blue	UCT-TM 16 BU	0829182	10

Terminal marking

UniCard terminal marking for flat marker groove



Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer



Markers for a terminal block width
of up to 6.2 mm

- The UCT-TMF ... UniCard marking range includes markers for products with tall and flat marker grooves
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
- The multi-section marking strips can be easily separated and are easy to fit
- The sheets provide space for including function texts
- The UCT sheets can also be used with the THERMOMARK CARD-UCT-MAG2 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 60.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

[°C]

Wipe resistance

Components

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color

UniCard, for terminal blocks with a flat marker groove, 108-section, 18 individual labels per strip, for a terminal block width of 3.5 mm

Type	Order No.	Pcs./Pkt.

UCT-TMF 3,5	0829486	10
UCT-TMF 3,5 RD	0829515	10
UCT-TMF 3,5 YE	0829487	10
UCT-TMF 3,5 BU	0829518	10

UniCard, for terminal blocks with a flat marker groove, 90-section, 15 individual labels per strip, for a terminal block width of 4.2 mm

UCT-TMF 4	0828742	10
UCT-TMF 4 RD	0829184	10
UCT-TMF 4 YE	0828743	10
UCT-TMF 4 BU	0829187	10

UniCard, for terminal blocks with a flat marker groove, 72-section, 12 individual labels per strip, for a terminal block width of 5.2 mm

UCT-TMF 5	0828744	10
UCT-TMF 5 RD	0829189	10
UCT-TMF 5 YE	0828745	10
UCT-TMF 5 BU	0829192	10

UniCard, for terminal blocks with a flat marker groove, 60-section, 10 individual labels per strip, for a terminal block width of 6.2 mm

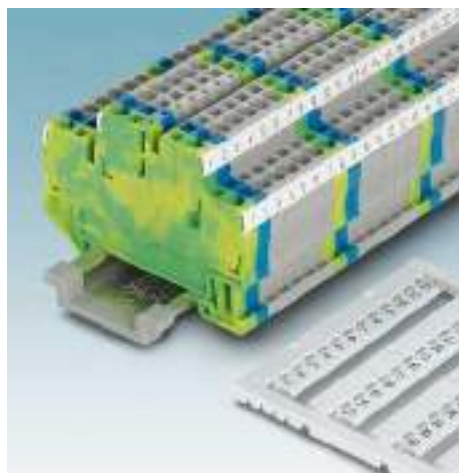
UCT-TMF 6	0828746	10
UCT-TMF 6 RD	0829194	10
UCT-TMF 6 YE	0828747	10
UCT-TMF 6 BU	0829197	10

Accessories

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT-TMF...

TMP-UCT-MAG2	0803343	1



UniCard terminal marking for flat marker groove

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Markers for terminal block widths
up to 16 mm

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

[°C]

Wipe resistance

Components

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR •
BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME •
THERMOMARK CARD 2.0
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniCard , for terminal blocks with a flat marker groove, 42-section, 7 individual labels per strip, for a terminal block width of 8.2 mm				
	white	UCT-TMF 8	0828748	10
	red	UCT-TMF 8 RD	0829199	10
	yellow	UCT-TMF 8 YE	0828749	10
	blue	UCT-TMF 8 BU	0829202	10
UniCard , for terminal blocks with a flat marker groove, 36-section, 6 individual labels per strip, for a terminal block width of 10.2 mm				
	white	UCT-TMF 10	0829204	10
	red	UCT-TMF 10 RD	0829205	10
	yellow	UCT-TMF 10 YE	0829207	10
	blue	UCT-TMF 10 BU	0829209	10
UniCard , for terminal blocks with a flat marker groove, 30-section, 5 individual labels per strip, for a terminal block width of 12 mm				
	white	UCT-TMF 12	0829214	10
	red	UCT-TMF 12 RD	0829212	10
	yellow	UCT-TMF 12 YE	0829211	10
	blue	UCT-TMF 12 BU	0829216	10
UniCard , for terminal blocks with a flat marker groove, 24-section, 4 individual labels per strip, for a terminal block width of 16 mm				
	white	UCT-TMF 16	0829218	10
	red	UCT-TMF 16 RD	0829219	10
	yellow	UCT-TMF 16 YE	0829221	10
	blue	UCT-TMF 16 BU	0829223	10

Accessories

Magazine for THERMOMARK CARD and THERMOMARK PRIME
for accommodating UCT-TMF...

TMP-UCT-MAG2 0803343 1

Terminal marking

UniSheet terminal marking
for universal marker groove

Can be marked using:



UV LED technology



Thermal transfer



13 strips with a strip width of 104 mm

- The US-TM 100 UniSheet markers are suitable for products with universal marker grooves
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively.
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts
- The UniSheet can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

Notes:
An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 60.

General data	
Can be marked with	
Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
UniSheet, for Push-in terminal blocks with a special center groove	white

Magazine for THERMOMARK CARD and THERMOMARK PRIME
for accommodating all US materials
Adapter plate for BLUEMARK ID, for accommodating US materials

Technical data	
BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME • THERMOMARK CARD 2.0 • THERMOMARK CARD	
PVC	
V0	
-30 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Ordering data		
Type	Order No.	Pcs./Pkt.
US-TM 100	0829255	10

Accessories		
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1



UniSheet terminal marking for flat marker groove

Can be marked using:



UV LED technology



Thermal transfer



20 strips with a strip width of 104 mm



- The US-TMF 100 UniSheet markers are suitable for products with a flat marker groove
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively.
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 60.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME

• THERMOMARK CARD 2.0 • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

Ordering data

Description	Color
UniSheet, for terminal blocks with tall, flat or universal marker groove	white
UniSheet, self-adhesive marker strips for terminal blocks with flat marker groove	white

Type	Order No.	Pcs./Pkt.
US-TMF 100	0829260	10
US-TMFL 100	0830339	10

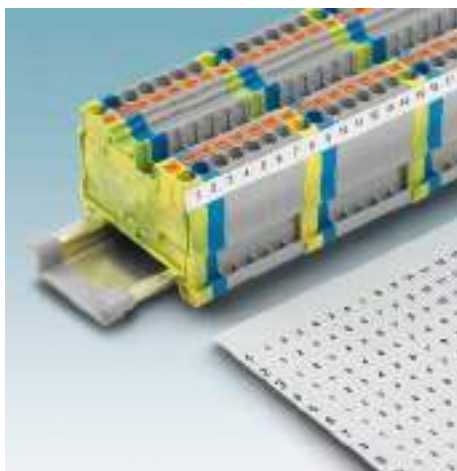
Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Adapter plate for BLUEMARK ID, for accommodating US materials

Accessories

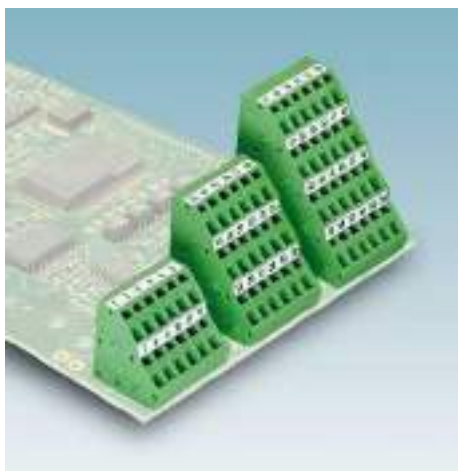
Type	Order No.	Pcs./Pkt.
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1



Terminal marking

UniSheet marker strips, self-adhesive, for terminal blocks without marker groove

Can be marked using:



UV LED technology



Thermal transfer



26 strips, 104 mm wide, 2.8 mm high

- The US-TML marking range includes self-adhesive marker strips for products without a marker groove
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively.
- The perforated marking strips are easy to separate and can be easily fitted
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- The cards provide space for including function texts

General data

Can be marked with

Number of individual labels

Number of individual labels per strip

Material

Temperature range

[°C]

Wipe resistance

Components

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME

• THERMOMARK CARD 2.0 • THERMOMARK CARD

26

1

Polyester

-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color
UniSheet , self-adhesive marker strips for terminal blocks without marker groove Lettering field size: 104 x 2.8 mm	white
UniSheet , self-adhesive marker strips for terminal blocks without marker groove Lettering field size: 104 x 3.8 mm	white
UniSheet , self-adhesive marker strips for terminal blocks without marker groove Lettering field size: 104 x 5 mm	white
UniSheet , self-adhesive marker strips for terminal blocks without marker groove Lettering field size: 104 x 10 mm	white

Type	Order No.	Pcs./Pkt.
US-TML (104X2,8)	0830767	10

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Adapter plate for BLUEMARK ID, for accommodating US materials

Accessories

TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1



22 strips, 104 mm wide, 3.8 mm high



19 strips, 104 mm wide, 5 mm high



11 strips, 104 mm wide, 10 mm high

Technical data		
BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME • THERMOMARK CARD 2.0 • THERMOMARK CARD		
22		
1		
Polyester		
-40 ... 150		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs./Pkt.
US-TML (104X3,8)	0830768	10

Accessories		
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

Technical data		
BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME • THERMOMARK CARD 2.0 • THERMOMARK CARD		
19		
1		
Polyester		
-40 ... 150		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs./Pkt.
US-TML (104X5)	0830769	10

Accessories		
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

Technical data		
BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME • THERMOMARK CARD 2.0 • THERMOMARK CARD		
11		
1		
Polyester		
-40 ... 150		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs./Pkt.
US-TML (104X10)	0830770	10

Accessories		
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

Marking and labeling – MARKING system

Terminal marking

Marker strips for tall and flat marker grooves



- The TMT marking range includes markers for all products with tall and flat marker grooves
- The perforated marking strips are easy to separate and can be easily fitted using the tool supplied
- Quick and cost-effective marking with THERMOMARK ... roll printers from Phoenix Contact
- When combined with the right ink ribbon, the marking is highly resistant to chemical and mechanical influences. It is even suitable for use under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark TMT markers according to your requirements
- **Designation example:**
TMT 4 R
Pitch: 4.2 mm
Type of packaging: roll

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 60.

¹⁾ The TMT TOOL snap-in tool can only be used for terminal blocks from Phoenix Contact.

Can be marked using:



Thermal transfer for rolls

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Markers for terminal block widths up to 10.2 mm

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Insert strips , perforated, for all terminal blocks with tall, flat or universal marker groove, incl. TMT TOOL, can be marked with thermal transfer printer, for a terminal block width of 4.2 mm, strip height: 6.4 mm				
1 roll = 1000 strips, 24 individual labels per strip	white	TMT 4 R	0816375	1
Insert strips , as above, for a terminal block width of 5.2 mm, strip height: 6.4 mm				
1 roll = 1000 strips, 19 individual labels per strip	white	TMT 5 R	0816430	1
Insert strips , as above, for a terminal block width of 6.2 mm, strip height: 6.4 mm				
1 roll = 1000 strips, 16 individual labels per strip	white	TMT 6 R	0816498	1
Insert strips , as above, for a terminal block width of 8.2 mm, strip height: 6.4 mm				
1 roll = 1000 strips, 12 individual labels per strip	white	TMT 8 R	0816553	1
Insert strips , for a terminal block width of 10.2 mm, strip height: 6.4 mm				
1 roll = 1000 strips, 10 individual labels per strip	white	TMT 10 R	0816210	1
Insert strips , width: 101.5 mm, strip height: 6.4 mm				
1 roll = 1000 strips, 1 individual label per strip	white	TMT 100 R	0816605	1

Accessories

Ink ribbon for roll printer , ink color: black, length: 300 m, width: 110 mm				
Thermomark-Ribbon 110-WMTB HF		5148007		1
Snap-in tool , for fitting TMT... materials ¹⁾	orange	TMT TOOL	0816650	1



Marking and labeling – MARKING system

Terminal marking

Terminal marking, marker strips for tall and flat marker grooves



Can be marked using:



Thermal transfer for rolls

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Unmarked or marked according to customer specifications

- The TMT marking range includes markers for all products with tall and flat marker grooves
- Quick and cost-effective marking with THERMOMARK ... roll printers from Phoenix Contact
- The thermal transfer printer cutting units make it possible to quickly and cleanly trim connection terminal block markings precisely to the required length
- When combined with the right ink ribbon, the marking is highly resistant to chemical and mechanical influences. It is even suitable for use under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark TMT markers according to your requirements
- **Designation example:**
TMT (Ex5,5)R
Lettering field length: continuous
Lettering field height: 5.5 mm
Type of packaging: roll

General data

Can be marked with

Material
Material thickness
Flammability rating in accordance with UL 94
Temperature range
Wipe resistance
Components

[°C]

THERMOMARK ROLL 2.0 • THERMOMARK ROLL •
THERMOMARK ROLL X1 • THERMOMARK ROLLMASTER 300 •
THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2
PVC
0.50 mm
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Technical data

Ordering data

Description	Color
Continuous insert strips , can be marked with thermal transfer printer, can be separated with a cutter, pitch as desired, strip length up to 1000 mm	
1 roll = 50 m continuous, height: 5.5 mm	white
1 roll = 50 m continuous, height: 6.2 mm	white
1 roll = 50 m continuous, height: 6.3 mm	white
1 roll = 50 m continuous, height: 6.5 mm	white
1 roll = 50 m continuous, height: 7.5 mm	white
1 roll = 50 m continuous, height: 8.0 mm	white
1 roll = 50 m continuous, height: 8.5 mm	white
1 roll = 50 m continuous, height: 9.5 mm	white
1 roll = 50 m continuous, height: 10 mm	white
1 roll = 50 m continuous, height: 10.5 mm	white
1 roll = 50 m continuous, height: 10.8 mm	white
1 roll = 50 m continuous, height: 12.0 mm	white

Type	Order No.	Pcs./Pkt.
TMT (EX5,5)R	0803062	1
TMT (EX6,2)R	0803063	1
TMT (EX6,3)R	0803998	1
TMT (EX6,5)R	0803064	1
TMT (EX7,5)R	0803065	1
TMT (EX8)R	0803066	1
TMT (EX8,5)R	0803067	1
TMT (EX9,5)R	0828295	1
TMT (EX10)R	0803068	1
TMT (EX10,5)R	0803070	1
TMT2 (EX11)R	0802683	1
TMT (EX12)R	0803071	1

Notes:

¹⁾ The TMT TOOL snap-in tool can only be used for terminal blocks from Phoenix Contact.

Ink ribbon for roll printer , ink color: black, length: 300 m, width: 110 mm
Ink ribbon for roll printer , ink color: black, length: 300 m, width: 25 mm
Snap-in tool , for fitting TMT... materials ¹⁾
orange

Accessories

THERMOMARK-RIBBON 110-WMTB HF	5148007	1
TM-RIBBON 25 BK 102	1053499	1
TMT TOOL	0816650	1

TMT ... terminal marking for terminal blocks from Phoenix Contact and other manufacturers



		TMT (EX5,5)R	TMT (EX6,2)R	TMT (EX6,5)R	TMT (EX7,5)R	TMT (EX8)R	TMT (EX8,5)R	TMT (EX9,5)R	TMT (EX10)R	TMT (EX10,5)R	TMT2 (EX11)R	TMT (EX12)R
TMT – markers, roll	0803062	0803063	0803064	0803065	0803066	0803067	0828295	0803068	0803070	0802683	0803071	
Strip height	5.5	6.2	6.5	7.5	8	8.5	9.5	10	10.5	10.8	12	
Terminal block manufacturer												
Phoenix Contact												
Fuji Electronics Industry												
IDEC												
KASUGA												
TOGI												
WAGO (2001 ... - 2016 ...)												
Yoshida Electronics												

Terminal marking

Self-adhesive marker strips

Can be marked using:



Thermal transfer for rolls



Marker with strip width of 101.5 mm

- Zack marker strips and flat zack marker strips can be marked subsequently with the TML marking foil
- Quick and cost-effective marking with THERMOMARK ... roll printers from Phoenix Contact
- When combined with the right ink ribbon, the marking is highly resistant to chemical and mechanical influences. It is even suitable for use under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many TML ... labels according to your requirements
- **Designation example:**
TML (101x9,5)R TR
Lettering field width: 101 mm
Lettering field height: 9.5 mm
Type of packaging: roll
TR = transparent

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 60.

General data

Can be marked with

Material
Temperature range
Wipe resistance
Components

[°C]

Technical data

THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color
Labels for zack marker strip , can be marked with a thermal transfer printer, width: 101 mm, height: 9.5 mm	
1 roll = 1000 labels	transparent
Labels for zack marker strip, flat , can be marked with a thermal transfer printer, width: 101 mm, height: 4.2 mm	
1 roll = 2500 labels	transparent

Type	Order No.	Pcs./Pkt.
TML (101X9,5)R TR	0816647	1
TML (101X4,2)R TR	0816621	1

Accessories

Ink ribbon for roll printer , ink color: black, length: 300 m, width: 110 mm
Ink ribbon for roll printer , ink color: black, length: 50 m, width: 110 mm
Ink ribbon for roll printer and THERMOMARK CARD , ink color: white, length: 60 m, width: 110 mm

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1
TM-RIBBON 110 WH 100	0804661	1



Self-adhesive marker strips

- Marking service: Phoenix Contact can custom-mark many TML ... labels according to your requirements
- **Designation example:**
TML (Ex9,5)R TR
 Lettering field width: continuous
 Lettering field height: 9.5 mm
 Type of packaging: roll
 TR = transparent

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Markers with varying strip heights,
continuous

General data		Technical data		
Can be marked with		THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2		
Material		Polyester		
Temperature range		-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
Continuous labels for zack marker strips , can be marked with thermal transfer printer, can be separated with a cutter, pitch as desired, strip length up to 1000 mm,				
1 roll = 40 m continuous, height: 9.5 mm	transparent	TML (EX9,5)R TR	0816634	1
		Accessories		
Ink ribbon for roll printer , ink color: black, length: 300 m, width: 110 mm		THERMOMARK-RIBBON 110	5145384	1
Ink ribbon for roll printer , ink color: black, length: 50 m, width: 110 mm		THERMOMARK-RIBBON 110/50	0800687	1
Ink ribbon for roll printer and THERMOMARK CARD , ink color: white, length: 60 m, width: 110 mm		TM-RIBBON 110 WH 100	0804661	1

Terminal marking

Self-adhesive marker strips for terminal blocks without a marker groove



- The self-adhesive marker strips from the TML marking range mark products without a marker groove
- Quick and cost-effective marking with THERMOMARK ... roll printers from Phoenix Contact
- When combined with the right ink ribbon, the marking is highly resistant to chemical and mechanical influences. It is even suitable for use under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many TML ... labels according to your requirements
- **Designation example:**
TML (104x2,8)R
 Lettering field width: 104 mm
 Lettering field height: 2.8 mm
 Type of packaging: roll

Can be marked using:



Thermal transfer for rolls



Unmarked

General data

Can be marked with

Number of individual labels per strip

Material

Temperature range

[°C]

Wipe resistance

Components

Technical data

THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2
 1
 Polyester
 -40 ... 150
 DIN EN 61010-1 (VDE 0411-1)
 Free from silicone and halogen

Ordering data

Description	Color
Labels , can be marked with a thermal transfer printer	
1 roll = 2500 labels	white
1 roll = 2500 labels	white
1 roll = 2500 labels	white
1 roll = 1500 labels	white

Type	Order No.	Pcs./Pkt.
TML (104X2,8)R	0801832	1
TML (104X3,8)R	0801833	1
TML (104X5)R	0801834	1
TML (104X10)R	0801835	1

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1



Self-adhesive marker strips for terminal blocks without marker groove, continuous

- The self-adhesive marker strips from the TML marking range mark products without a marker groove
- Marking service: Phoenix Contact can custom-mark many TML ... labels according to your requirements
- **Designation example: TML (Ex2,8) R**
Strip length: continuous
Strip height: 2.8 mm
Type of packaging: roll



Unmarked



Markers with varying strip heights, continuous

Notes:

If you wish to process large rolls with the THERMOMARK ROLL..., use the THERMOMARK ROLL-ERH external media hub. See printers, page 40.

General data

Can be marked with

Material
Temperature range
Wipe resistance
Components

[°C]

Technical data

THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Technical data

THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color

Continuous labels, can be marked with thermal transfer printer, can be separated with a cutter, pitch as desired, strip length up to 1000 mm,

1 roll = 30 m continuous, height: 2.8 mm, 14 strips	white
1 roll = 30 m continuous, height: 3.8 mm, 12 strips	white
1 roll = 30 m continuous, height: 5.0 mm, 10 strips	white
1 roll = 30 m continuous, height: 7.0 mm, 8 strips	white
1 roll = 30 m continuous, height: 7.0 mm, 8 strips	silver
1 roll = 30 m continuous, height: 10.0 mm, 7 strips	white

1 roll = 150 m continuous, height: 6.0 mm, 1 strip	white
1 roll = 150 m continuous, height: 10.0 mm, 1 strip	white

Type	Order No.	Pcs./Pkt.
TML (EX2,8)R	0801836	1
TML (EX3,8)R	0801837	1
TML (EX5)R	0801838	1
TML (EX7)R	0830837	1
TML (EX7)R SR	0830838	1
TML (EX10)R	0801839	1

Ordering data

Type	Order No.	Pcs./Pkt.

TML (EX6)RL	1026829	1
TML (EX10)RL	1067779	1

Accessories

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 25 mm

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1
TM-RIBBON 25 BK 102	1053499	1

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1
TM-RIBBON 25 BK 102	1053499	1

Marking and labeling – MARKING system

Terminal marking

Self-adhesive marker strips for terminal blocks without a marker groove

- The self-adhesive marker strips from the SK marking range mark products without a marker groove
- Ideal for marking COMBICON connectors
- Quick and cost-effective marking with THERMOMARK ... roll printers from Phoenix Contact

Notes:
The print image may vary depending on the laser printer.
If you wish to process SK rolls with the THERMOMARK ROLL..., use the THERMOMARK ROLL-ERH external media hub. See printers, page 40.



Markers with a strip length of up to 1000 mm



Markers with a strip length of up to 185 mm

General data		Technical data			Technical data		
Can be marked with		THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2			PLOTMARK • CMS-P1-PLOTTER • Office printing systems		
Material	[°C]	Polyester			Polyester		
Temperature range		-40 ... 150			-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen			Free from silicone and halogen		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Continuous labels , can be marked with thermal transfer printer, can be separated with a cutter, pitch as desired, strip length up to 1000 mm							
1 roll = 90 m continuous, height: 2.8 mm, 14 strips	white	SK 2,8 WH:REEL	0805205	1			
Continuous labels , can be marked with thermal transfer printer, can be separated with a cutter, pitch as desired, strip length up to 1000 mm							
1 roll = 90 m continuous, height: 3.8 mm, 12 strips	white	SK 3,8 WH:REEL	0805218	1			
Continuous labels , can be marked with thermal transfer printer, can be separated with a cutter, pitch as desired, strip length up to 1000 mm							
1 roll = 90 m continuous, height: 5.0 mm, 10 strips	white	SK 5,0 WH:REEL	0805221	1			
Continuous labels , can be marked with thermal transfer printer, can be separated with a cutter, pitch as desired, strip length up to 1000 mm							
1 roll = 90 m continuous, height: 10.0 mm, 7 strips	white	SK 10,0 WH:REEL	0812188	1			
Label sheet , DIN A4 format, can be marked with laser printer,							
1 sheet = 50 strips, width: 185 mm, height: 2.8 mm	white				SK U/2,8 WH:UNBEDRUCKT	0803883	10
Label sheet , DIN A4 format, can be marked with laser printer,							
1 sheet = 40 strips, width: 185 mm, height: 3.8 mm	white				SK U/3,8 WH:UNBEDRUCKT	0803906	10
Label sheet , DIN A4 format, can be marked with laser printer,							
1 sheet = 35 strips, width: 185 mm, height: 5.0 mm	white				SK U/5,0 WH:UNBEDRUCKT	0803922	10
		Accessories			Accessories		
Ink ribbon for roll printer , ink color: black, length: 300 m, width: 110 mm		THERMOMARK-RIBBON 110	5145384	1			
Ink ribbon for roll printer , ink color: black, length: 50 m, width: 110 mm		THERMOMARK-RIBBON 110/50	0800687	1			

Self-adhesive marker strips for terminal blocks without a marker groove



- The self-adhesive marker strips from the SK marking range mark products without a marker groove
- Ideal for marking COMBICON connectors
- Marking service: Phoenix Contact can custom-mark many SK ... labels according to your requirements
- **Designation example:**
SK 2,54/2,8:FORTL.ZAHLEN
Pitch: 2.54 mm
Strip height: 2.8 mm
Consecutive numbers.; e.g., 1-10
Type of packaging: cards

PRINTED
FOR YOU



Markers marked up to 5.08 mm pitch

General data

Material	Polyester
Temperature range	-40 ... 150 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Technical data

Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Marker card, printed horizontally, self-adhesive, 10-section marker strips, 14 identical sets of ten marked, e.g., 1-10, 11-20, and so on up to 91-99, enough to mark 140 terminal blocks	white	SK 2,54/2,8:FORTL.ZAHLEN	0804853	10
Marker card, printed horizontally, self-adhesive, 10-section marker strips, 14 identical sets of ten marked, e.g., 1-10, 11-20, and so on up to 91-99, enough to mark 140 terminal blocks	white	SK 3,5/2,8:FORTL.ZAHLEN	0804073	10
Marker card, printed horizontally, self-adhesive, 10-section marker strips, 14 identical sets of ten marked, e.g., 1-10, 11-20, and so on up to 91-99, enough to mark 140 terminal blocks	white	SK 3,81/2,8:FORTL.ZAHLEN	0804109	10
Marker card, printed horizontally, self-adhesive, 10-section marker strips, 14 identical sets of ten marked, e.g., 1-10, 11-20, and so on up to 91-100, enough to mark 140 terminal blocks	white	SK 5,08/2,8:FORTL.ZAHLEN	0804280	10



Terminal marking

Self-adhesive marker strips for terminal blocks without a marker groove



Markers marked up to 7.62 mm pitch

General data		Technical data		
Material		Polyester		
Temperature range	[°C]	-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
Marker card, printed horizontally , self-adhesive, 10-section marker strip, 12 identical decades marked, e.g., 1-10, 11-20, and so on up to 91-100, enough to mark 120 terminal blocks				
	white	SK 5/3,8:FORTL.ZAHLEN	0804183	10
Marker card, printed horizontally , self-adhesive, 10-section marker strip, 12 identical decades marked, e.g., 1-10, 11-20, and so on up to 91-100, enough to mark 120 terminal blocks				
	white	SK 5,08/3,8:FORTL.ZAHLEN	0804293	10
Marker card, printed horizontally , self-adhesive, 10-section marker strip, 12 identical decades marked, e.g., 1-10, 11-20, and so on up to 91-100, enough to mark 120 terminal blocks				
	white	SK 6,2/3,8:FORTL.ZAHLEN	0804374	10
Marker card, printed horizontally , self-adhesive, 10-section marker strip, 12 identical decades marked, e.g., 1-10, 11-20, and so on up to 91-100, enough to mark 120 terminal blocks				
	white	SK 7,5/3,8:FORTL.ZAHLEN	0804455	10
Marker card, printed horizontally , self-adhesive, 10-section marker strip, 12 identical decades marked, e.g., 1-10, 11-20, and so on up to 91-100, enough to mark 120 terminal blocks				
	white	SK 7,62/3,8:FORTL.ZAHLEN	0804549	10

Self-adhesive marker strips for terminal blocks without a marker groove

- The SK self-adhesive marker strips mark products without a marker groove
- Marking service: Phoenix Contact can custom-mark many SK markers according to your requirements



Markers marked with 7.5 mm pitch



Markers marked with 7.62 mm pitch

General data		Technical data			Technical data		
Material		Polyester			Polyester		
Temperature range	[°C]	-40 ... 150			-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen			Free from silicone and halogen		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Marker card, printed horizontally, self-adhesive, 10-section marker strip, 10 identical decades marked, e.g., 1-10, 11-20, and so on up to 91-100, enough to mark 100 terminal blocks							
	white	SK 7,5/5:FORTL.ZAHLEN	0804468	10	SK 7,62/5:FORTL.ZAHLEN	0804552	10

Marking and labeling – MARKING system

Terminal marking

UniCard group marking for snapping into CLIPFIX 35-5 end bracket

Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer



Unmarked or marked according to customer specifications

- Group marking which saves space
- Large-surface marking option
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The markers support multi-line marking
- The sheets provide space for including function texts
- The UCT sheet can also be used with the THERMOMARK CARD-UCT-MAG10 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data

Can be marked with

Number of individual labels
Material
Flammability rating in accordance with UL 94
Temperature range
Wipe resistance
Components

[°C]

Description

Color

UniCard, for marking the CLIPFIX 35-5 end bracket, 24-section, 8 individual labels per strip, lettering field size: 30 x 5 mm

white
yellow

End bracket, for snapping onto NS 35, 5.15 mm wide, can be marked with ZB 5 and UCT-EM (30X5), parking option for bridges and test plugs

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT-EM (30x5)

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0

24

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
UCT-EM (30X5)	0801505	10
UCT-EM (30X5) YE	0830340	10

Accessories

CLIPFIX 35-5	3022276	50
TMP-UCT-MAG10	0803352	1

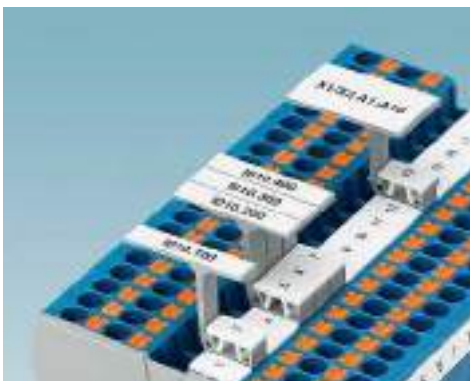
Terminal block group marking for snapping into tall marker groove

- Space-saving group marking directly on the terminal block
- Fits all terminal blocks with an overall width of 3.5 mm and a tall center marker groove
- Large-surface marking with labels or manually using B-STIFT or X-PEN



3.5 mm and 5.2 mm pitch

General data		Technical data		
Material		PA		
Flammability rating in accordance with UL 94		V2		
Temperature range	[°C]	-40 ... 120		
Components		Free from silicone and halogen		
Ordering data		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
Group marking label , can be snapped into terminal center, can be marked with an EML (24X3)R or EML (25,4X12,7)R... label or manually with B-STIFT or X-PEN, in the foot part with ZB 3,5 or UCT-TM 3,5	gray	GBS 3,5-25X3,5	0830290	100
	gray	GBS 3,5-25X12	0830292	100
Group marking label , can be snapped into terminal center, can be marked with an EML (24X4)R or EML (25,4X12,7)R... label or manually with B-STIFT or X-PEN, in the foot part with ZB 5, UC-TM 5 or UCT-TM 5	gray	GBS 5-25X5	0829126	100
	gray	GBS 5-25X12	0810588	100
Accessories		Accessories		
Labels for thermal transfer printer 1 roll = 2500 labels 1 roll = 2500 labels 1 roll = 1000 labels	white	EML (24X3)R	0830291	1
	white	EML (25,4X12,7)R	0816825	1
	white	EML (24X4)R	0800061	1



Terminal marking

STP ... marker carriers, for multi-level terminal blocks



STP ...

- The marker carriers enlarge the marking areas of wired multi-level terminal blocks
- Depending on the version, the marker carriers are placed in the receptacles on the upper terminal block level

STP ...-ZB

- The marker carriers can, for example, snap into the center marking groove of ST spring-cage terminal blocks and double the marking area; see figure below

CARRIER-TM 300

- Can be snapped into all terminal blocks in the CLIPLINE complete system that have a lateral flat marker groove
- For accommodating ZB ..., UC-TM ... or UCT-TM ... terminal markers, which increases the marking area

CARRIER-TMD 300

- Double-row snap-in marker adapter for accommodating two ZB ... or UC-TM ... and UCT-TM ... terminal markers, which doubles the marking area



General data

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	

Technical data

PA
V2
-40 ... 100
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Double marker carrier , can be snapped into PTTB 1,5/S Push-in double-level terminal blocks, can be marked with: ZB(F) 3,5 or UCT-TM(F) 3,5	gray	STP 3,5-2	0830131	100
Triple marker carrier , can be snapped into the PT 1,5/S-3... Push-in three-level terminal block, can be marked with: ZB(F) 3,5 or UCT-TM(F) 3,5	gray	STP 3,5-3	0830132	100
Double marker carrier , can be snapped into STTB 1,5, PTTB 1,5 double-level spring-cage terminal blocks, can be marked with: UC-TM(F) 4, ZB(F) 4 or UCT-TM(F) 4	gray	STP 4-2	0810575	100
Double marker carrier , can be snapped into STTB 2,5, STTB 4, PTTB 2,5, PTTB 4 double-level terminal blocks, can be marked with: UC-TM(F) 5, ZB(F) 5 or UCT-TM(F) 5	gray	STP 5-2	0800967	100
Triple marker carrier , can be snapped into the ST 2,5-3... PT 2,5-3... three-level terminal block, can be marked with: UC-TM(F) 5, ZB(F) 5 or UCT-TM 5	gray	STP 5-3	0810562	100
Double marker carrier , can be snapped into QTTCB ... and QTTCBS ... double-level fast-connection terminal blocks, can be marked with: UC-TM(F) 5, ZB(F) 5 or UCT-TM(F) 5	gray	STP 5-2/S	0800970	100
Double marker carrier , can be snapped into all terminal blocks with a width of 4.2 mm and a central zack marker strip groove, can be marked with: UC-TM(F) 4, ZB(F) 4 or UCT-TM(F) 4	gray	STP 4-2-ZB	3038613	100
Double marker carrier , can be snapped into all terminal blocks with a width of 5.2 mm or above and a central zack marker strip groove, can be marked with: UC-TM(F) 5, ZB(F) 5 or UCT-TM(F) 5	gray	STP 5-2-ZB	3037643	100
Marker adapter , 300 mm long, can be snapped into the lateral groove on terminal blocks, designed to accommodate UC-TM..., ZB... or UCT-TM...	gray	CARRIER-TM 300	0828282	25
Marker adapter , such as the CARRIER-TM 300; marking area at an angle to the top of the terminal block, designed to accommodate UC-TM..., ZB... or UCT-TM...	gray	CARRIER-TMH 300	0830670	25
Marker adapter, double row , 300 mm long, can be snapped into the center groove on terminal blocks, designed to accommodate two UC-TM..., ZB... or UCT-TM...	gray	CARRIER-TMD 300	0828693	25

WS... warning labels



- Warning labels and warning covers serve to cover and identify main terminal blocks
- This prevents accidental actuation of the terminal points
- The WS UT ... warning labels snap into the screw shafts of the relevant terminal block, they can be isolated lengthwise and crosswise
- The WS PT ... warning labels snap into the inspection holes of the Push-in terminal blocks

**General data**

Material
Wipe resistance

Technical data

PVC
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Warning label, for PT series				
5.2 mm wide	yellow/black	WS PT 2,5	1029026	10
6.2 mm wide	yellow/black	WS PT 4	1029563	10
8.2 mm wide	yellow/black	WS PT 6	1029029	10
10.2 mm wide	yellow/black	WS PT 10	1029030	10
12 mm wide	yellow/black	WS PT 16	1029033	10
Warning label, for UT series				
5.2 mm wide	yellow/black	WS UT 2,5	3047923	10
6.2 mm wide	yellow/black	WS UT 4	3047332	10
8.2 mm wide	yellow/black	WS UT 6	3047345	10
10.2 mm wide	yellow/black	WS UT 10	3047361	10
12 mm wide	yellow/black	WS UT 16	3047374	10
16 mm wide	yellow/black	WS UT 35	3047387	10
Warning cover, for ST series				
4.2 mm wide	yellow	WST 1,5	3030958	50
5.2 mm wide	yellow	WST 2,5	3030941	50
6.2 mm wide	yellow	WST 4	3030954	50
8.2 mm wide	yellow	WST 6	3030967	10
10.2 mm wide	yellow	WST 10/35	3030006	25



Terminal marking

UniCard marking for terminal blocks from other manufacturers with tall marker groove

Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths up to 8 mm

- The UC1-TM ... UniCard marking range includes markers for Weidmüller, CONTA-CLIP, and Klemmsan terminal blocks
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The multi-section marking strips can be easily separated and are easy to fit
- The markers support multi-line marking
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

An overview of markable terminal blocks can be found on page 80 onwards.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

BLUEMARK ID • BLUEMARK ID COLOR • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm	white red yellow blue
UniCard, for marking terminal blocks from other manufacturers, offset foot, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm	white
UniCard, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm	white red yellow blue
UniCard, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm	white red yellow blue

Type	Order No.	Pcs./Pkt.
UC1-TM 5	0821784	10
UC1-TM 5 RD	0828185	10
UC1-TM 5 YE	0828187	10
UC1-TM 5 BU	0828188	10
UC1U-TM 5	0821302	10
UC1-TM 6	0821247	10
UC1-TM 6 RD	0828190	10
UC1-TM 6 YE	0828192	10
UC1-TM 6 BU	0828193	10
UC1-TM 8	0821739	10
UC1-TM 8 RD	0828195	10
UC1-TM 8 YE	0828197	10
UC1-TM 8 BU	0828198	10

Magazine, for CMS-P1-PLOTTER and PLOTMARK

Accessories

P1 UC-MAG 5	5146118	1

UniCard marking for terminal blocks from other manufacturers with flat marker groove

Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths up to 8 mm



- The UC1-TMF ... UniCard marking range includes markers for Weidmüller, Wago, ABB (entrelec), CONTA-CLIP, and Klemmsan terminal blocks
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The multi-section marking strips can be easily separated and are easy to fit
- The markers support multi-line marking
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

An overview of markable terminal blocks can be found on page 80 onwards.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

BLUEMARK ID • BLUEMARK ID COLOR • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description Color

UniCard, for marking terminal blocks from other manufacturers, 120-section, 15 individual labels per strip, for a terminal block width of 4 mm

white

red

yellow

blue

UniCard, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm

white

red

yellow

blue

UniCard, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm

white

red

yellow

blue

UniCard, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm

white

red

yellow

blue

Magazine, for CMS-P1-PLOTTER and PLOTMARK

Type Order No. Pcs./Pkt.

UC1-TMF 4 0821360 10
UC1-TMF 4 RD 0828200 10
UC1-TMF 4 YE 0828202 10
UC1-TMF 4 BU 0828203 10

UC1-TMF 5 0821425 10
UC1-TMF 5 RD 0828205 10
UC1-TMF 5 YE 0828127 10
UC1-TMF 5 BU 0828207 10

UC1-TMF 6 0821483 10
UC1-TMF 6 RD 0828209 10
UC1-TMF 6 YE 0828211 10
UC1-TMF 6 BU 0828212 10

UC1-TMF 8 0821548 10
UC1-TMF 8 RD 0828214 10
UC1-TMF 8 YE 0828216 10
UC1-TMF 8 BU 0828217 10

Accessories

P1 UC-MAG 4 5146105 1

Terminal marking

UniCard marking for terminal blocks from other manufacturers with tall marker groove

Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths up to 8 mm

- The UC2-TM ... UniCard marking range includes markers for Wago terminal blocks
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The multi-section marking strips can be easily separated and are easy to fit
- The markers support multi-line marking
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

An overview of markable terminal blocks can be found on page 80 onwards.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

BLUEMARK ID • BLUEMARK ID COLOR • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 120-section, 15 individual labels per strip, for a terminal block width of 4 mm	white
UniCard, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm	white
UniCard, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm	white
UniCard, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm	white

Type	Order No.	Pcs./Pkt.
UC2-TM 4	0821713	10
UC2-TM 5	0821690	10
UC2-TM 6	0821674	10
UC2-TM 8	0821755	10

Accessories

Magazine, for CMS-P1-PLOTTER and PLOTMARK

P1 UC-MAG 5	5146118	1

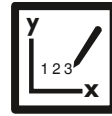
UniCard marking for terminal blocks from other manufacturers with flat marker groove



Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths up to 8 mm

- The UC2F-TM ... UniCard marking range includes markers for ABB (Entrelec) terminal blocks
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The multi-section marking strips can be easily separated and are easy to fit
- The markers support multi-line marking
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

An overview of markable terminal blocks can be found on page 80 onwards.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

Description

Color

UniCard, for marking terminal blocks from other manufacturers, 120-section, 15 individual labels per strip, for a terminal block width of 4 mm

white

UniCard, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm

white

yellow

UniCard, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm

white

UniCard, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm

white

Magazine, for CMS-P1-PLOTTER and PLOTMARK

Technical data

BLUEMARK ID • BLUEMARK ID COLOR • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
UC2F-TM 4	0822178	10
UC2F-TM 5	0822181	10
UC2F-TM 5 YE	1057110	10
UC2F-TM 6	0822194	10
UC2F-TM 8	0822204	10

Accessories

P1 UC-MAG 4	5146105	1

Terminal marking

UniCard marking for terminal blocks from other manufacturers with tall marker groove

Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths up to 8 mm

- The UC3-TM ... UniCard marking range includes markers for Wieland and Legrand terminal blocks
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The multi-section marking strips can be easily separated and are easy to fit
- The markers support multi-line marking
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

An overview of markable terminal blocks can be found on page 80 onwards.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

[°C]

Wipe resistance

Components

BLUEMARK ID • BLUEMARK ID COLOR • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Technical data

Ordering data

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm	white
UniCard, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm	white
UniCard, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm	white

Type	Order No.	Pcs./Pkt.
UC3-TM 5	0822369	10
UC3-TM 6	0822385	10
UC3-TM 8	0822408	10

Accessories

Magazine, for CMS-P1-PLOTTER and PLOTMARK

P1 UC-MAG 1	5146079	1

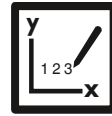
UniCard marking for terminal blocks from other manufacturers with tall marker groove



Can be marked using:



UV LED technology



Plotter



Markers for a terminal block width over 5 mm

- The UC4-TM ... UniCard markers are suitable for Siemens terminal blocks from the 8WH ... series
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The multi-line marking strips are easily separated and easy to fit
- The markers support multi-line marking
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

Description

Color

UniCard, for marking terminal blocks from other manufacturers, 56-section, 7 individual labels per strip, for terminal block widths over 5 mm

white

Magazine, for CMS-P1-PLOTTER and PLOTMARK

Technical data

BLUEMARK ID • BLUEMARK ID COLOR • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
UC4-TM 5	0828415	10

Accessories

P1 UC-MAG 5	5146118	1

Terminal marking

UniCard marking for terminal blocks from other manufacturers with tall marker groove

- The UCT1-TM ... UniCard marking range includes markers for Weidmüller, CONTA-CLIP, and Klemmsan terminal blocks
- The UCT1-TMF ... UniCard marking range includes markers for Weidmüller, Wago, ABB (Entrelec), CONTA-CLIP, and Klemmsan terminal blocks
- The UCT sheets can also be used with the corresponding THERMOMARK CARD-UCT-MAG1, 4, 5, and 6 magazines in THERMOMARK CARD ...

Notes:
An overview of markable terminal blocks can be found on page 80 onwards.

PRINTED
FOR YOU



Markers for terminal block widths up to 6 mm

PRINTED
FOR YOU



Flat marker for a terminal block width up to 6 mm

General data

Can be marked with

Material
Flammability rating in accordance with UL 94
Temperature range [°C]
Wipe resistance
Components

Technical data

THERMOMARK CARD • THERMOMARK CARD 2.0 •
THERMOMARK PRIME • BLUEMARK ID • BLUEMARK ID COLOR
• TOPMARK LASER • TOPMARK NEO
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Technical data

THERMOMARK CARD • THERMOMARK CARD 2.0 •
THERMOMARK PRIME • BLUEMARK ID • BLUEMARK ID COLOR
• TOPMARK LASER • TOPMARK NEO
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description Color

UniCard, for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for a terminal block width of 5 mm

white
red
yellow
blue

UCT1-TM 5
UCT1-TM 5 RD
UCT1-TM 5 YE
UCT1-TM 5 BU

0829482
0829226
0829228
0829229

10
10
10
10

UniCard, for marking terminal blocks from other manufacturers such as UCT1-TM 5, but with offset foot

white

UCT1U-TM 5

0803204

10

UniCard, for marking terminal blocks from other manufacturers, 60-section, 10 individual labels per strip, for a terminal block width of 6 mm

white
red
yellow
blue

UCT1-TM 6
UCT1-TM 6 RD
UCT1-TM 6 YE
UCT1-TM 6 BU

0829483
0829232
0829234
0829235

10
10
10
10

UniCard, for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for a terminal block width of 5 mm

white
red
yellow
blue

UCT1-TMF 5
UCT1-TMF 5 RD
UCT1-TMF 5 YE
UCT1-TMF 5 BU

0829237
0829238
0829240
0829241

10
10
10
10

UniCard, for marking terminal blocks from other manufacturers, 60-section, 10 individual labels per strip, for a terminal block width of 6 mm

white
red
yellow
blue

UCT1-TMF 6
UCT1-TMF 6 RD
UCT1-TMF 6 YE
UCT1-TMF 6 BU

0829243
0829244
0829246
0829247

10
10
10
10

Accessories

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT-TM..., UCT1(U)-TM..., UCT5-TM..., UCT-EM (5x10), UCT-EM (6x10)

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT1-TMF...

TMP-UCT-MAG1

0803342

1

Accessories

TMP-UCT-MAG4

0803345

1

UniCard marking for terminal blocks from other manufacturers with tall marker groove

- The UCT2-TM 5/6 UniCard markers are suitable for Wago terminal blocks
- The UCT3-TM ... UniCard marking range includes markers for Wieland and Legrand terminal blocks

Notes:

An overview of markable terminal blocks can be found on page 80 onwards.

PRINTED
FOR YOU



Markers for terminal block widths of 5 to 6 mm

PRINTED
FOR YOU



Markers for terminal block widths up to 6 mm

General data

Can be marked with

Material
Flammability rating in accordance with UL 94
Temperature range
Wipe resistance
Components

[°C]

Technical data

THERMOMARK CARD • THERMOMARK CARD 2.0 •
THERMOMARK PRIME • BLUEMARK ID • BLUEMARK ID COLOR
• TOPMARK LASER • TOPMARK NEO
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
UCT2-TM 5/6	0829249	10

Description

Color

UniCard, for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for terminal block widths of 5 and 6 mm

white

UniCard, for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for a terminal block width of 5 mm

white

UniCard, for marking terminal blocks from other manufacturers, 60-section, 10 individual labels per strip, for a terminal block width of 6 mm

white

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT2-TM...

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT3-TM...

Accessories

Type	Order No.	Pcs./Pkt.
TMP-UCT-MAG5	0803347	1

Technical data

THERMOMARK CARD • THERMOMARK CARD 2.0 •
THERMOMARK PRIME • BLUEMARK ID • BLUEMARK ID COLOR
• TOPMARK LASER • TOPMARK NEO
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
UCT3-TM 5	0829251	10
UCT3-TM 6	0829252	10

Accessories

Type	Order No.	Pcs./Pkt.
TMP-UCT-MAG6	0803348	1

Terminal marking

UniCard marking for terminal blocks from other manufacturers with tall marker groove

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED
FOR YOU



Markers for terminal block widths up to 6 mm

- The UCT5-TM ... UniCard marking range includes markers for Cabur terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
- The multi-section marking strips can be easily separated and are easy to fit
- The markers support multi-line marking
- The sheets provide space for including function texts
- The UCT sheet can also be used with the THERMOMARK CARD-UCT-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

An overview of markable terminal blocks can be found on page 80 onwards.

General data

Can be marked with

Material
Flammability rating in accordance with UL 94
Temperature range
Wipe resistance
Components

[°C]

Technical data

THERMOMARK CARD • THERMOMARK CARD 2.0 •
THERMOMARK PRIME • BLUEMARK ID • BLUEMARK ID COLOR
• TOPMARK LASER • TOPMARK NEO
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 66-section, 11 individual labels per strip, for a terminal block width of 5 mm	white
UniCard, for marking terminal blocks from other manufacturers, 54-section, 9 individual labels per strip, for a terminal block width of 6 mm	white

Type	Order No.	Pcs./Pkt.
UCT5-TM 5	0828750	10
UCT5-TM 6	0828752	10

Accessories

Magazine for THERMOMARK CARD and THERMOMARK PRIME
for accommodating UCT-TM..., UCT1(U)-TM..., UCT5-TM...,
UCT-EM (5x10), UCT-EM (6x10)

TMP-UCT-MAG1	0803342	1

UniCard marking for terminal blocks from other manufacturers with flat marker groove



Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED
FOR YOU



Markers for terminal block widths up to 8.2 mm

- The UCT6M ... UniCard marking range includes markers for ABB terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly, precisely, and easily.
- The multi-section marking strips can be easily separated and are easy to fit
- The UCT sheets can also be used with the THERMOMARK CARD-UCT-MAG23 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

An overview of markable terminal blocks can be found on page 80 onwards.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

[°C]

Wipe resistance

Components

Technical data

THERMOMARK CARD • THERMOMARK CARD 2.0 • THERMOMARK PRIME • BLUEMARK ID • BLUEMARK ID COLOR • TOPMARK LASER • TOPMARK NEO
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 60-section, 12 individual labels per strip, for a terminal block width of 5.2 mm	white
UniCard, for marking terminal blocks from other manufacturers, 50-section, 10 individual labels per strip, for a terminal block width of 6.2 mm	white
UniCard, for marking terminal blocks from other manufacturers, 35-section, 7 individual labels per strip, for a terminal block width of 8.2 mm	white

Type	Order No.	Pcs./Pkt.
UCT6M-TM 5	0830756	10
UCT6M-TM 6	0830757	10
UCT6M-TM 8	0830758	10

Accessories

Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT6M-TM...

TMP-UCT-MAG23	0803367	1

Terminal marking

UniCard marking for terminal blocks from other manufacturers with tall marker groove

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking



Markers for terminal block widths up to 8.2 mm

- The UCT6R-TM ... UniCard marking range includes markers for entrelec terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly, precisely, and easily
- The multi-section marking strips can be easily separated and are easy to fit
- The UCT sheets can also be used with the THERMOMARK CARD-UCT-MAG24 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

An overview of markable terminal blocks can be found on page 80 onwards.

General data

Can be marked with

Material
Flammability rating in accordance with UL 94
Temperature range [°C]
Wipe resistance
Components

Technical data

THERMOMARK CARD • THERMOMARK CARD 2.0 •
THERMOMARK PRIME • BLUEMARK ID • BLUEMARK ID COLOR
• TOPMARK LASER • TOPMARK NEO
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 60-section, 12 individual labels per strip, for a terminal block width of 5.2 mm	white
UniCard, for marking terminal blocks from other manufacturers, 50-section, 10 individual labels per strip, for a terminal block width of 6.2 mm	white
UniCard, for marking terminal blocks from other manufacturers, 35-section, 7 individual labels per strip, for a terminal block width of 8.2 mm	white

Type	Order No.	Pcs./Pkt.
UCT6R-TM 5	0830753	10
UCT6R-TM 6	0830754	10
UCT6R-TM 8	0830755	10

Accessories

Magazine for THERMOMARK CARD and THERMOMARK PRIME
for accommodating UCT6R-TM...

TMP-UCT-MAG24	0803368	1

UniSheet marking for terminal blocks from other manufacturers

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



12 strips with a strip width of 104 mm



- The US2-TM 100 UniSheet markers are suitable for Wago terminal blocks
- The markers, which are supplied as uniform cards, can be marked quickly, easily, and precisely with marking systems
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts
- The UniSheet can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

Notes:

An overview of markable terminal blocks can be found on page 80 onwards.

General data

Can be marked with

Number of individual labels
Number of individual labels per strip
Material
Flammability rating in accordance with UL 94
Temperature range
Wipe resistance
Components

[°C]

Description	Color
UniSheet, for marking terminal blocks from other manufacturers with a Wago TopJob S terminal block groove, strip length of 104 mm	white

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials
Adapter plate for BLUEMARK ID, for accommodating US materials

Technical data

THERMOMARK CARD • THERMOMARK CARD 2.0 •
THERMOMARK PRIME • BLUEMARK ID • BLUEMARK ID COLOR
12
1
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Type	Order No.	Pcs./Pkt.
US2-TM 100	0829268	10

Accessories

Type	Order No.	Pcs./Pkt.
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

Terminal marking

UM marking for terminal blocks from other manufacturers, strips

Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer



For a tall marker groove
up to a pitch of 6 mm

- The UM1-TM ... universal material marking range includes markers for terminal blocks from Weidmüller, CONTA-CLIP, and Klemmsan
- The markers, which are supplied in the form of double strips, can be marked quickly, easily, and precisely with marking systems
- The markers support multi-line marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high degree of positioning accuracy

General data

Can be marked with

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, CONTA-CLIP, Klemmsan, unprinted, 34-section, pitch: 3.5 mm, label height: 12 mm	white	UM1-TM (3,5X12)	0830925	10
	red	UM1-TM (3,5X12) RD	0833020	10
	yellow	UM1-TM (3,5X12) YE	0833022	10
	blue	UM1-TM (3,5X12) BU	0833023	10
UM1-TM.... , for marking terminal blocks from other manufacturers, Weidmüller, CONTA-CLIP, Klemmsan, unprinted, 24-section, pitch: 5 mm, label height: 10 mm	white	UM1-TM (5X10)	0830905	10
	red	UM1-TM (5X10) RD	0833025	10
	yellow	UM1-TM (5X10) YE	0833027	10
	blue	UM1-TM (5X10) BU	0833028	10
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, CONTA-CLIP, Klemmsan, unprinted, 24-section, pitch: 5 mm, label height: 12 mm	white	UM1-TM (5X12)	0830912	10
	red	UM1-TM (5X12) RD	0833035	10
	yellow	UM1-TM (5X12) YE	0833037	10
	blue	UM1-TM (5X12) BU	0833038	10
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, Cona-Clip, Klemmsan, unprinted, 20-section, pitch: 6 mm, label height: 10 mm	white	UM1-TM (6X10)	0830903	10
	red	UM1-TM (6X10) RD	0833040	10
	yellow	UM1-TM (6X10) YE	0833042	10
	blue	UM1-TM (6X10) BU	0833043	10

Magazine, for THERMOMARK CARD ... and THERMOMARK PRIME
for accommodating UM1-TM ..., UM5-TM...
Magazine for the BLUEMARK printer, for accommodating UM materials

Accessories

TMP-UM-MAG1	0831200	1
BLUEMARK MAG UM-TM	0803335	1

UM marking for terminal blocks from other manufacturers, strips

Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer

For a tall marker groove
up to a pitch of 12 mm

- The UM1-TM ... universal material marking range includes markers for terminal blocks from Weidmüller, CONTA-CLIP, and Klemmsan
- The markers, which are supplied in the form of double strips, can be marked quickly, easily, and precisely with marking systems
- The markers support multi-line marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high degree of positioning accuracy

General data

Can be marked with

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, CONTA-CLIP, Klemmsan, unprinted, 20-section, pitch: 6 mm, label height: 12 mm	white	UM1-TM (6X12)	0830909	10
	red	UM1-TM (6X12) RD	0833050	10
	yellow	UM1-TM (6X12) YE	0833052	10
	blue	UM1-TM (6X12) BU	0833053	10
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, CONTA-CLIP, Klemmsan, unprinted, 14-section, pitch: 8 mm, label height: 10 mm	white	UM1-TM (8X10)	0830906	10
	red	UM1-TM (8X10) RD	0833055	10
	yellow	UM1-TM (8X10) YE	0833057	10
	blue	UM1-TM (8X10) BU	0833058	10
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, CONTA-CLIP, Klemmsan, unprinted, 14-section, pitch: 8 mm, label height: 12 mm	white	UM1-TM (8X12)	0830920	10
	red	UM1-TM (8X12) RD	0833060	10
	yellow	UM1-TM (8X12) YE	0833062	10
	blue	UM1-TM (8X12) BU	0833063	10
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, Cona-Clip, Klemmsan, unprinted, 10-section, pitch: 12 mm, label height: 10 mm	white	UM1-TM (12X10)	0830916	10
	red	UM1-TM (12X10) RD	0833065	10
	yellow	UM1-TM (12X10) YE	0833067	10
	blue	UM1-TM (12X10) BU	0833068	10

Magazine, for THERMOMARK CARD ... and THERMOMARK PRIME
for accommodating UM1-TM ..., UM5-TM...
Magazine for the BLUEMARK printer, for accommodating UM materials

Accessories

Type	Order No.	Pcs./Pkt.
TMP-UM-MAG1	0831200	1
BLUEMARK MAG UM-TM	0803335	1

Terminal marking

UM marking for terminal blocks from other manufacturers, strips

Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer



For a tall marker groove, with an offset foot, up to a pitch of 6 mm

- The UM1-TM ... universal material marking range includes markers for terminal blocks from Weidmüller, CONTA-CLIP, and Klemmsan
- The markers, which are supplied in the form of double strips, can be marked quickly, easily, and precisely with marking systems
- The markers support multi-line marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high degree of positioning accuracy

General data

Can be marked with

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Description	Color
UM1U-TM ..., for marking terminal blocks from other manufacturers, Weidmüller, CONTA-CLIP, Klemmsan, with an offset foot, unprinted, 24-section, pitch: 5 mm	white
	red
	yellow
	blue
UM1U-TM ..., for marking terminal blocks from other manufacturers, Weidmüller, CONTA-CLIP, Klemmsan, with an offset foot, unprinted, 20-section, pitch: 6 mm	white
	red
	yellow
	blue

Type	Order No.	Pcs./Pkt.
UM1U-TM (5X10)	0830910	10
UM1U-TM (5X10) RD	0833030	10
UM1U-TM (5X10) YE	0833032	10
UM1U-TM (5X10) BU	0833033	10
UM1U-TM (6X10)	0830907	10
UM1U-TM (6X10) RD	0833045	10
UM1U-TM (6X10) YE	0833047	10
UM1U-TM (6X10) BU	0833048	10

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UM1U-TM ...

Magazine for the BLUEMARK printer, for accommodating UM materials

Accessories

TMP-UM-MAG4	0831203	1
BLUEMARK MAG UM-TM	0803335	1

UM marking for terminal blocks from other manufacturers, strips



Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer



For a flat marker groove
up to a pitch of 8 mm

- The universal UM1-TM ... material marking range includes markers for Weidmüller, Conta-Clip, Klemmsan, Wago, and ABB (Entrelec) terminal blocks
- The markers, which are supplied in the form of double strips, can be marked quickly, easily, and precisely with marking systems
- The markers support multi-line marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high degree of positioning accuracy

General data

Can be marked with

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UM1-TMF ... , for marking terminal blocks from other manufacturers, Weidmüller, CONTA-CLIP, Klemmsan, Wago, ABB (Entrelec), unprinted, 34-section, pitch: 3.5 mm	white	UM1-TMF (3,5X5)	0830935	10
	red	UM1-TMF (3,5X5) RD	0833000	10
	yellow	UM1-TMF (3,5X5) YE	0833002	10
	blue	UM1-TMF (3,5X5) BU	0833003	10
UM1-TMF ... , for marking terminal blocks from other manufacturers, Weidmüller, CONTA-CLIP, Klemmsan, Wago, ABB (Entrelec), unprinted, 24-section, pitch: 5 mm	white	UM1-TMF (5X5)	0830902	10
	red	UM1-TMF (5X5) RD	0833005	10
	yellow	UM1-TMF (5X5) YE	0833007	10
	blue	UM1-TMF (5X5) BU	0833008	10
UM1-TMF ... , for marking terminal blocks from other manufacturers, Weidmüller, CONTA-CLIP, Klemmsan, Wago, ABB (Entrelec), unprinted, 20-section, pitch: 6 mm	white	UM1-TMF (6X5)	0830904	10
	red	UM1-TMF (6X5) RD	0833010	10
	yellow	UM1-TMF (6X5) YE	0833012	10
	blue	UM1-TMF (6X5) BU	0833013	10
UM1-TMF ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemmsan, Wago, ABB (Entrelec), unprinted, 14-section, pitch: 8 mm	white	UM1-TMF (8X5)	0830924	10
	red	UM1-TMF (8X5) RD	0833015	10
	yellow	UM1-TMF (8X5) YE	0833017	10
	blue	UM1-TMF (8X5) BU	0833018	10

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UM1-TMF ...

Magazine for the BLUEMARK printer, for accommodating UM materials

Accessories

TMP-UM-MAG3	0831202	1
BLUEMARK MAG UM-TM	0803335	1

Terminal marking

UM marking for terminal blocks from other manufacturers, strips



Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer



For a tall marker groove
up to a pitch of 6 mm

- The UM ...-TM ... universal material marking range includes markers for terminal blocks from a variety of manufacturers. UM2 ... for Wago, UM3 ... for Wieland, UM5 ... for Cabur, and UM6M ... for ABB
- The markers, which are supplied in the form of double strips, can be marked quickly, easily, and precisely with marking systems
- The markers support multi-line marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high degree of positioning accuracy

General data

Can be marked with

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UM2-TM... for marking Wago terminal blocks, unprinted, 34/28/24-section, pitch: 3.5 to 6 mm	white	UM2-TM (3,5X10)	0830936	10
	white	UM2-TM (4X10)	0830934	10
	white	UM2-TM (5/6X10)	0830911	10
UM3-TM... for marking Wieland terminal blocks, unprinted, 24/20/14-section, pitch: 5 to 8 mm	white			
	white			
	white			
UM5-TM... for marking Cabur terminal blocks, unprinted, 28/24/20-section, pitch: 4 to 6 mm	white			
	white			
	white			
UM6M-TM... for marking ABB terminal blocks, unprinted, 24/20/14-section, pitch: 5 to 8 mm	white			
	white			
	white			

Magazine, for THERMOMARK CARD ... and THERMOMARK PRIME

for accommodating UM1-TM ..., UM5-TM...
for accommodating UM2-TM...
for accommodating UM3-TM...
for accommodating UM6M-TM...

Magazine for the BLUEMARK printer, for accommodating UM materials

Accessories

TMP-UM-MAG5	0803328	1
BLUEMARK MAG UM-TM	0803335	1



For a tall marker groove
up to a pitch of 8 mm



For a tall marker groove
up to a pitch of 6 mm



For a tall marker groove
up to a pitch of 8 mm

Technical data		
TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0		
PC		
V2		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone, halogen, and cadmium		

Ordering data		
Type	Order No.	Pcs./Pkt.

UM3-TM (5X8)	0830917	10
UM3-TM (6X8)	0830915	10
UM3-TM (8X8)	0830929	10

Accessories		

TMP-UM-MAG6	0803329	1
BLUEMARK MAG UM-TM	0803335	1

Technical data		
TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0		
PC		
V2		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone, halogen, and cadmium		

Ordering data		
Type	Order No.	Pcs./Pkt.

UM5-TM (4X10)	0830938	10
UM5-TM (5X10)	0830922	10
UM5-TM (6X10)	0830919	10

Accessories		

TMP-UM-MAG1	0831200	1
BLUEMARK MAG UM-TM	0803335	1

Technical data		
TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0		
PC		
V2		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone, halogen, and cadmium		

Ordering data		
Type	Order No.	Pcs./Pkt.

UM6M-TM (5X12)	0830928	10
UM6M-TM (6X12)	0830926	10
UM6M-TM (8X12)	0830939	10

Accessories		

TMP-UM-MAG7	0803330	1
BLUEMARK MAG UM-TM	0803335	1

Terminal marking

UM marking for terminal blocks from other manufacturers, strips

Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer



For a tall marker groove up to a pitch of 8 mm

- The UM ...-TM ... universal material marking range includes markers for terminal blocks from a variety of manufacturers. UM6R ... for Entrelec, UM7 ... for Legrand, and UM8 ... for Woertz
- The markers, which are supplied in the form of double strips, can be marked quickly, easily, and precisely with marking systems
- The markers support multi-line marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high degree of positioning accuracy

General data

Can be marked with

Material
Flammability rating in accordance with UL 94
Temperature range
Wipe resistance
Components

[°C]

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Description	Color
UM6R-TM... for marking Entrelec terminal blocks, unprinted, 24/20/14-section, pitch: 5 to 8 mm	white white white
UM7-TM... for marking Legrand terminal blocks, unprinted, 24/20/14-section, pitch: 5 to 8 mm	white white white
UM8-TM... for marking Woertz terminal blocks, unprinted, 24/20-section, pitch: 5 to 6 mm	white white

Type	Order No.	Pcs./Pkt.
UM6R-TM (5X10)	0830923	10
UM6R-TM (6X10)	0830921	10
UM6R-TM (8X10)	0830932	10

Accessories

Magazine for THERMOMARK CARD and THERMOMARK PRIME
for accommodating UM7-TM (5x10), UM7-TM (6x10)
for accommodating UM6R-TM...
for accommodating UM8-TM...
Magazine for the BLUEMARK printer, for accommodating UM materials

TMP-UM-MAG8	0803331	1
BLUEMARK MAG UM-TM	0803335	1



For a tall marker groove
up to a pitch of 8 mm



For a tall marker groove
up to a pitch of 6 mm

Technical data		
TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0		
PC		
V2		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone, halogen, and cadmium		

Ordering data		
Type	Order No.	Pcs./Pkt.
UM7-TM (5X10)	0830933	10
UM7-TM (6X10)	0830931	10
UM7-TM (8X10)	0830945	10

Accessories		
TMP-UM-MAG10	0803334	1
BLUEMARK MAG UM-TM	0803335	1

Technical data		
TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0		
PC		
V2		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone, halogen, and cadmium		

Ordering data		
Type	Order No.	Pcs./Pkt.
UM8-TM (5X9)	0830946	10
UM8-TM (6X9)	0830943	10

Accessories		
TMP-UM-MAG9	0803332	1
BLUEMARK MAG UM-TM	0803335	1



Wire and cable marking – MARKING system

Clear and permanent marking of all conductors and cables considerably improves transparency in control cabinets and switchgear. It makes assembly and maintenance work easier and assists in rectifying faults.

Phoenix Contact conductor and cable markers provide the ideal marking option for any application. Just select an assembly method. The markers can be threaded on, clipped on, adhered in place or secured with cable ties.

Product range overview

Wire and cable marking 178

Overview of conductor markers and cable markers 180

The right marking solution for every diameter

LaserSheet LS-WMTB... wire and cable marking

Stainless steel and aluminum markers, for assembly with cable ties 188

WMTB AL... aluminum wire and cable marking 192

UniCard UC-WM... and UCT-WM... wire and cable marking

Clip-on and slide-on markers, for insertion in marking collars, for assembly with cable ties, for threading on 194

UniSheet US-WM... wire and cable marking

Markers for insertion in marking collars, for assembly with cable ties, adhesive markers for wrapping around 213

WM... wire and cable marking supplied in rolls

Adhesive markers for wrapping around or as flags 216

WMS... shrink sleeves supplied in rolls 224

EMT and WMT... wire and cable marking supplied in rolls

Markers for insertion in marking collars, for threading on, for assembly with cable ties 229

KMK... cable markers for assembly with cable ties 234

Cable markers for carrier assembly

Markers made of plastic and stainless steel 245

PATG... and PATO... marking collars 248



Far from being a luxury, standard-compliant and permanent wire and cable markings are actually a mark of quality demanded by customers in respect of modern high-quality capital goods.

Phoenix Contact provides the ideal marking option for wire and cable marking, for all users and all applications. With this in mind, a comprehensive product range is available, consisting of various label and sign formats, made from different basic materials, such as plastics, aluminum, and stainless steel.

Depending on the design, the marking materials are threaded on, clipped on, adhered in place or secured with cable ties. The printing systems and marking materials that are coordinated with each other ensure high quality and resistance to external influences.

Depending on the application and material for individual marking, the following marking systems can be used.

- TOPMARK NEO, laser marker for marking UniCard formats as well as stainless steel and aluminum labels.
- BLUEMARK ID and BLUEMARK ID COLOR, high-speed printer with UV LED technology for marking UniSheet and UniCard formats as well as aluminum markers
- THERMOMARK CARD 2.0 and THERMOMARK PRIME, thermal transfer card printer for marking UniSheet and UniCard formats
- THERMOMARK ROLL 2.0, thermal transfer roll printer for marking material off the roll and continuous media
- THERMOMARK ROLLMaster 300 and ROLLMaster 600, industrial thermal transfer roll printer for large printing volumes of rolls and continuous media
- THERMOMARK W2, thermal transfer printer for double-sided marking and perforation of continuous shrink sleeves
- THERMOFOX, thermal transfer printer in handheld format, for marking labels and shrink sleeves in cassette format
- PLOTMARK, marking plotter for marking UniCard formats as well as materials in strip and sheet format
- Standard desktop laser printer, for marking material in sheet format

The PROJECT complete software is available for the easy and efficient production of markings. The marking data generated can be imported from CAE systems, Excel or word processing programs using the data exchange manager included in PROJECT complete. In addition to automatic data transfer, there is also the option of manual input. The print files are then automatically forwarded to the corresponding marking systems and processed.

If you do not have the option of creating markings yourself, you can turn to our marking service. We will be happy to handle your printing orders. This also includes engraving or laser marking of stainless steel cable markers.



Conductors and cables can be optimally and permanently marked with stainless steel or aluminum markers. They are attached using cable ties.



Clip-on conductor markers feature two non-detachable marking areas that remain legible at all times. They are clipped onto pre-wired conductors and cables manually.



Individual printed markers are threaded onto conductors or attached by means of cable ties. Various materials can be supplied as cards, sheets or on rolls.



The ferrules feature an insulating collar that supports marking and are marked prior to crimping. This combines two operations in one.



PATG HF, PATG, and PATO marking collars are slid onto the conductors and filled with insert strips that can be marked.



Shrink sleeves are ideal for captive marking of cables and conductors. They are available prefabricated and in rolls.



Conductor markers are fitted using cable ties almost regardless of conductor or cable diameter. The large marking area provides enough space for comprehensive marking.



Cable marker labels consist of a marking field and transparent film. The film protects the marking against abrasion and dirt. The labels are available in various shapes and sizes.



Plastic cable markers are suitable for both bundling and marking conductors and cables. A sealing cap protects the marking against contamination and abrasion.

Wire and cable marking

Overview of wire and cable marking

Markers for marking with various marking technologies



Conductor/cable diameter [mm]	Shrink sleeve (shrink ratio: 3:1)				Shrink sleeve (shrink ratio: 2:1)				Cable marker label		Stainless steel and aluminum cable markers for fastening with cable ties					
	Page 44				Page 45				Page 45		Page 180					
	MM-WMS 3,2 ...	MM-WMS 4,8 ...	MM-WMS 6,4 ...	MM-WMS 9,5 ...	MM-WMS-2 3,2 ...	MM-WMS-2 4,8 ...	MM-WMS-2 6,4 ...	MM-WMS-2 9,5 ...	MM-WML 3 ...	MM-WML 5 ...	LS-WMTB-... (29X8)	LS-WMTB-... (40X15)	LS-WMTB-... (60X15)	LS-WMTB-... (100X15)	LS-WMTB-... (D25)	LS-WMTB-... (D30)
0.5																
1.0																
1.5	1.0															
2.0	1.6	1.6	2.1		1.6	2.4			2.0	2.0						
2.5																
3.0	3.2				3.2				3.0		2.9					
3.5																
4.0		4.8		3.2		3.2				5.0						
4.5																
5.0			6.4			4.8		4.8			4.6	4.6	4.6			
5.5																
6.0			6.4			6.4										
7.0																
8.0				9.5				9.5								
9.0																
10.0																
12.0																
14.0																
16.0																
18.0																
20.0																
22.0																
24.0																
26.0															25	
28.0																
30.0																
35.0																
40.0																
45.0																
50.0											50.0	50.0	50.0	50.0		

Overview of wire and cable marking

Markers for marking with various marking technologies



Conductor/cable diameter [mm]	Slide-on conductor markers		Clip-on conductor markers										Cable markers for fastening with cable ties			
	Page 208		Page 209										Page 210			
	UCT-WMS 3,2 ...	UCT-WMS 4,7 ...	UCT-WMCO 1,9 ...	UCT-WMCO 2,9 ...	UCT-WMCO 3,5 ...	UCT-WMCO 4,1 ...	UCT-WMCO 4,7 ...	UCT-WMCO 5,4 ...	UCT-WMCO 6,1 ...	UCT-WMCO 6,8 ...	UCT-WMCO 7,5 ...		UCT-WMTBA (24X4)	UCT-WMTBA (29X6)	UCT-WMTBA (40X17)	UCT-WMTBA (29X8)
0.5																
1.0																
1.5			1.1													
2.0	1.5		1.9													
2.5				2.0												
3.0		2.5		2.9												
3.5	3.2				2.9											2.9
4.0					3.5											
4.5						3.5										
5.0		4.7				4.1										
5.5							4.1									
6.0							4.7									
7.0							5.4						5.0			
8.0								5.4								
9.0									6.1							
10.0									6.8							
12.0										6.8						
14.0											6.8					
16.0												6.8				
18.0													5.0			
20.0														6.0		
22.0															6.0	
24.0																5.0
26.0																5.0
28.0																5.0
30.0																5.0
35.0																5.0
40.0																5.0
45.0																5.0
50.0																5.0

																				
Cable markers for fastening with cable ties		Cable marker label		Cable marker label		Cable marker label														
Page 183		Page 215		Page 216		Page 217														
US-WMTB ...	US-WML 6 (13X13)	US-WML 14 (25X19)	US-WML 36 (25X25)	WML 3 (13X10)A4	WML 5 (25X10)A4	WML 7,5 (25X13)A4	WML 14 (25X19)A4	WML 22 (35X25)A4	WML 36 (25X38)A4	WML 3 (13X10)R	WML 5 (25X10)R	WML 6 (13X13)R	WML 7,5 (...X...)R	WML 12 (25X19)R	WML 14 (...X...)R	WML 18 (12X12)R	WML 20 (31X25)R	WML 22 (25X25)R	WML 36 (25X38)R	WML 46 (25X83)R
				3.0	3.0					3.0	3.0									
	4.0					4.0						4.0	4.0			4.0				
					5.0						5.0									
	6.0											6.0								
		6.0				7.5	6.0						7.5	6.0	6.0					
								8.0									8.0	8.0		
														12.0						
13.0		14.0	14.0				14.0		12.0						14.0				12.0	12.0
								22.0								18.0	20.0			
																		22.0		
			36.0						36.0										36.0	
50.0																				46.0

Wire and cable marking

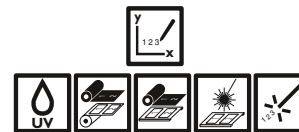
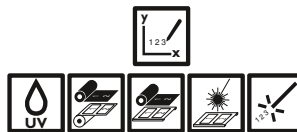
Overview of wire and cable marking

Markers for marking with various marking technologies



Conductor / cable diameter [mm]	Cable marker label, with integrated RFID transponder	Cable marker label						Cable marking flags	Shrink sleeve (shrink ratio: 2:1)											
	Page 217	Page 218						Page 219	Page 184											
	WML- RFID/HF14(25x19)R	WML HF 3 (13X10)R	WML HF 5 (25X10)R	WML HF 7,5 (25X13)R	WML HF 14 (25X19)R	WML HF 22 (35X25)R	WML HF 36 (25X38)R	WML-FLAG 6 ...	WML-FLAGV 6 ...	WMS-2 HF 2,4...	WMS-2 HF 3,2...	WMS-2 HF 4,8...	WMS-2 HF 6,4...	WMS-2 HF 9,5...	WMS-2 HF 12,7...	WMS-2 HF 19,1...	WMS-2 HF 25,4...	WMS-2 HF 38,1...	WMS-2 HF 50,8...	
0.5																				
1.0								0.5	0.5											
1.5																				
2.0										1.2										
2.5										2.4										
3.0		3.0	3.0								1.6									
3.5											3.2									
4.0												2.4								
4.5				4.0									3.2							
5.0			5.0									4.8								
5.5													4.8							
6.0								6.0	6.0					6.4						
7.0	6.0				6.0										6.4					
8.0				7.5		8.0														
9.0														9.5						
10.0																				
12.0															12.7					
14.0	14.0				14.0		12.0													
16.0																				
18.0																				
20.0																19.1				
22.0						22.0														
24.0																				
26.0																				
28.0																				
30.0																				
35.0																				
40.0							36.0													
45.0																				
50.0																			50.8	

Markers for marking with various marking technologies



**Cable marker carrier
for fastening with cable ties
in conjunction with
US-EMP .../ ESL .../ EMT ...**

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**Cable marker carrier
for fastening with cable ties
in conjunction with
UCT-EMP .../ ESL .../ EMT ...**

Page 238

**Cable marker carrier
for fastening with cable ties
in conjunction with
US-EMP .../ UCT-EMP .../ ESL .../ EMT ...**

Page 240

[illegible]



**Slide-on marking collar
in conjunction with
UC-WMT .../ UCT-WMT ...**

Page 250

[illegible]

Wire and cable marking

Stainless steel and aluminum cable marking for assembly with cable ties



- The LS-WMTB ... product range is available in stainless steel (V4A) or aluminum. The range provides markers for quick and easy fastening with cable ties
- LS-WMTB-V4A ... markers are characterized in particular by their high resistance to salt water, chloride, and solvents. This makes them suitable for the most demanding industrial requirements.



- By selecting the material in the PROJECT complete planning and configuration software, the correct laser parameters are automatically transferred to TOPMARK ...
- **Designation example:**
LS-WMTB-V4A (29x8)
Lettering field size: 29 x 8 mm



- The use of modern laser technology creates highly resistant and permanent markings
- The LS-WMTB-V4A ... product group can be marked in two ways: by engraving or annealing
- Marking service: Phoenix Contact can custom-mark many markers according to your requirements

Can be marked using:



Direct laser marking

General data

Can be marked with
Material
Wipe resistance
Components

Description

Stainless steel label, for assembly with cable ties,
conductor diameter
36-section, > 2.9 mm Ø
16-section, > 4.6 mm Ø
16-section, > 4.6 mm Ø
8-section, > 4.6 mm Ø

Aluminum label, for assembly with cable ties,
conductor diameter
36-section, > 2.9 mm Ø
16-section, > 4.6 mm Ø
16-section, > 4.6 mm Ø
8-section, > 4.6 mm Ø

Adapter plate, for LS materials, for TOPMARK NEO

Sheet hopper, for TOPMARK LASER

Notes:

For corresponding stainless steel cable ties, see page 620.

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Stainless steel, material thickness: 0.5 mm

PRINTED
FOR YOU



Aluminum, material thickness: 0.8 mm

PRINTED
FOR YOU



Aluminum, black, material thickness: 0.8 mm

Technical data		
TOPMARK NEO • TOPMARK LASER V4A DIN EN 61010-1 (VDE 0411-1) Free from silicone, halogen, and cadmium		
Ordering data		
Type	Order No.	Pcs./Pkt.
LS-WMTB-V4A (29X8)	0831516	5
LS-WMTB-V4A (40X15)	0831517	5
LS-WMTB-V4A (60X15)	0831518	5
LS-WMTB-V4A (100X15)	0831519	5
Accessories		
TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Technical data		
TOPMARK NEO • TOPMARK LASER Aluminum DIN EN 61010-1 (VDE 0411-1) Free from silicone, halogen, and cadmium		
Ordering data		
Type	Order No.	Pcs./Pkt.
LS-WMTB-AL (29X8)	0831500	5
LS-WMTB-AL (40X15)	0831501	5
LS-WMTB-AL (60X15)	0831502	5
LS-WMTB-AL (100X15)	0831503	5
Accessories		
TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Technical data		
TOPMARK NEO • TOPMARK LASER Aluminum DIN EN 61010-1 (VDE 0411-1) Free from silicone, halogen, and cadmium		
Ordering data		
Type	Order No.	Pcs./Pkt.
LS-WMTB-AL (29X8) BK	0831508	5
LS-WMTB-AL (40X15) BK	0831509	5
LS-WMTB-AL (60X15) BK	0831510	5
LS-WMTB-AL (100X15) BK	0831511	5
Accessories		
TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Wire and cable marking

Stainless steel and aluminum cable marking for assembly with cable ties



- The LS-WMTB ... product range in circular format is available in stainless steel (V4A) or aluminum. LS-WMTB ... provides markers for quick and easy fastening with cable ties
- The LS-WMTB-V4A ... group is characterized in particular by its high resistance to salt water, chloride, and solvents. This makes it suitable for the most demanding industrial requirements.



- By selecting the material in the PROJECT complete planning and configuration software, the correct laser parameters are automatically transferred to TOPMARK ...
- **Designation example:**
LS-WMTB-V4A (D25)
Diameter: 25 mm



- The use of modern laser technology creates highly resistant and permanent markings
- The LS-WMTB-V4A ... product group can be marked in two ways: by engraving or annealing
- Marking service: Phoenix Contact can custom-mark many markers according to your requirements

Can be marked using:



Direct laser marking

General data

Can be marked with
Material
Wipe resistance
Components

Description

Stainless steel label, round, for assembly with cable ties

30-section, diameter: 25 mm

20-section, diameter: 30 mm

Aluminum label, round, for assembly with cable ties

30-section, diameter: 25 mm

20-section, diameter: 30 mm

Adapter plate, for LS materials, for TOPMARK NEO

Sheet hopper, for TOPMARK LASER

Notes:

For corresponding stainless steel cable ties, see page 620.

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Stainless steel, material thickness: 0.5 mm

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Aluminum, material thickness: 0.8 mm

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FOR YOU



Aluminum, black, material thickness: 0.8 mm

Technical data		
TOPMARK NEO • TOPMARK LASER V4A DIN EN 61010-1 (VDE 0411-1) Free from silicone, halogen, and cadmium		
Ordering data		
Type	Order No.	Pcs./Pkt.
LS-WMTB-V4A (D25)	0831520	5
LS-WMTB-V4A (D30)	0831521	5
Accessories		
TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Technical data		
TOPMARK NEO • TOPMARK LASER Aluminum DIN EN 61010-1 (VDE 0411-1) Free from silicone, halogen, and cadmium		
Ordering data		
Type	Order No.	Pcs./Pkt.
LS-WMTB-AL (D25)	0831504	5
LS-WMTB-AL (D30)	0831505	5
Accessories		
TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Technical data		
TOPMARK NEO • TOPMARK LASER Aluminum DIN EN 61010-1 (VDE 0411-1) Free from silicone, halogen, and cadmium		
Ordering data		
Type	Order No.	Pcs./Pkt.
LS-WMTB-AL (D25) BK	0831512	5
LS-WMTB-AL (D30) BK	0831513	5
Accessories		
TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Wire and cable marking

Aluminum cable marking for assembly with cable ties

Can be marked using:



UV LED technology

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Aluminum, material thickness: 0.8 mm

The WMTBA ... product range is available in aluminum (AL) and is characterized by:

- Double-sided marking option
- High-quality appearance
- Easy assembly with cable ties
- Suitable for large-surface marking of conductors and cables > 2.9 mm in diameter

Notes:

For corresponding stainless steel cable ties, see page 620.

General data

Can be marked with

Material
Wipe resistance
Components

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED

Aluminum
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Description	Color
Aluminum label , 0.8 mm thick, conductor diameter [mm]	
Lettering field size: 29 x 8 mm, > 2.9 mm Ø	aluminum color
Lettering field size: 40 x 15 mm, > 4.6 mm Ø	aluminum color
Lettering field size: 60 x 15 mm, > 4.6	aluminum color
Aluminum label , round, 0.8 mm thick	
Diameter: 30 mm	aluminum color

Type	Order No.	Pcs./Pkt.
WMTB-AL (29X8)	0830805	90
WMTB-AL (40X15)	0830524	45
WMTB-AL (60X15)	0830525	45

Magazine, for BLUEMARK printer, for accommodating aluminum labels
for WMTB-AL (29X8)
for WMTB-AL (40X15)
for WMTB-AL (60X15)

Magazine, for BLUEMARK printer, for accommodating stainless steel and aluminum labels
for WMTB-AL (D30) ...

Accessories

BLUEMARK MAG WM-M (29X8)	0802743	1
BLUEMARK MAG WM-M (40X15)	0802744	1
BLUEMARK MAG WM-M (60X15)	0802746	1



Aluminum, material thickness: 0.8 mm

Technical data		
BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED		
Aluminum DIN EN 61010-1 (VDE 0411-1) Free from silicone, halogen, and cadmium		
Ordering data		
Type	Order No.	Pcs./Pkt.
WMTB-AL (D30)	0830804	90
Accessories		
BLUEMARK MAG WM-M (D30)	0802747	1

Wire and cable marking

Clip-on UniCard wire marking

Can be marked using:



UV LED technology



Plotter



Markers for conductor diameters
from 1.2 to 1.9 mm

- The UC-WMC ... UniCard marking range includes markers for the captive marking of control cables right through to light plastic-sheathed cables with large diameters
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- Can be clipped on even after wiring has been completed
- Two marking areas that can be easily read at anytime
- The markers support multi-line marking
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

For more variants, see phoenixcontact.net/products.

General data

Can be marked with

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	
Conductor diameter range	[mm]
Conductor cross section range	[mm²]
Conductor cross section range	AWG

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen
1.2 ... 1.9
0.25 ... 0.34
24 ... 22

Ordering data

Description	Color
UniCard, for subsequent marking of conductors, lettering field size: 15 x 4 mm, 20-section, 4 individual labels per strip	white red yellow blue
UniCard, for subsequent marking of conductors, lettering field size: 30 x 4 mm, 12-section, 4 individual labels per strip	white

Type	Order No.	Pcs./Pkt.
UC-WMC 1,9 (15X4)	0828004	10
UC-WMC 1,9 (15X4) RD	0828006	10
UC-WMC 1,9 (15X4) YE	0828008	10
UC-WMC 1,9 (15X4) BU	0828010	10
UC-WMC 1,9 (30X4)	0830283	10

Accessories

P1 UC-MAG 1	5146079	1



Clip-on UniCard wire marking

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Markers for conductor diameters
from 1.9 to 3.1 mm

General data		Technical data		
Can be marked with		BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER		
Material		PA		
Flammability rating in accordance with UL 94		V2		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
Conductor diameter range	[mm]	1.9 ... 3.1		
Conductor cross section range	[mm²]	0.5 ... 1.5		
Conductor cross section range	AWG	20 ... 16		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
UniCard , for subsequent marking of conductors, lettering field size: 15 x 4 mm, 20-section, 4 individual labels per strip				
	white	UC-WMC 3,1 (15X4)	0818205	10
	red	UC-WMC 3,1 (15X4) RD	0818755	10
	yellow	UC-WMC 3,1 (15X4) YE	0818739	10
	blue	UC-WMC 3,1 (15X4) BU	0818742	10
UniCard , for subsequent marking of conductors, lettering field size: 23 x 4 mm, 12-section, 4 individual labels per strip				
	white	UC-WMC 3,1 (23X4)	0818218	10
	red	UC-WMC 3,1 (23X4) RD	0818807	10
	yellow	UC-WMC 3,1 (23X4) YE	0818784	10
	blue	UC-WMC 3,1 (23X4) BU	0818797	10
UniCard , for subsequent marking of conductors, lettering field size: 30 x 4 mm, 12-section, 4 individual labels per strip				
	white	UC-WMC 3,1 (30X4)	0819631	10
	red	UC-WMC 3,1 (30X4) RD	0820769	10
	yellow	UC-WMC 3,1 (30X4) YE	0819644	10
	blue	UC-WMC 3,1 (30X4) BU	0820756	10
		Accessories		
Magazine , for CMS-P1-PLOTTER and PLOTMARK				
		P1 UC-MAG 1	5146079	1

Can be marked using:



UV LED technology



Plotter



Markers for conductor diameters
from 2.8 to 4.4 mm

- The UC-WMC ... UniCard marking range includes markers for the captive marking of control cables right through to light plastic-sheathed cables with large diameters
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- Can be clipped on even after wiring has been completed
- Two marking areas that can be easily read at anytime
- The markers support multi-line marking
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data	
Can be marked with	
Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	
Conductor diameter range	[mm]
Conductor cross section range	[mm²]
Conductor cross section range	AWG

Technical data	
BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER	
PA	
V2	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	
2.8 ... 4.4	
1.5 ... 4	
16 ... 12	

Description	Color
UniCard , for subsequent marking of conductors, lettering field size: 15 x 5.5 mm, 15-section, 3 individual labels per strip	
	white
	red
	yellow
	blue
UniCard , for subsequent marking of conductors, lettering field size: 23 x 5.5 mm, 9-section, 3 individual labels per strip	
	white
	red
	yellow
	blue
UniCard , for subsequent marking of conductors, lettering field size: 30 x 5.5 mm, 9-section, 3 individual labels per strip	
	white
	red
	blue

Ordering data		
Type	Order No.	Pcs./Pkt.
UC-WMC 4,4 (15X5,5)	0818182	8
UC-WMC 4,4 (15X5,5) RD	0818852	8
UC-WMC 4,4 (15X5,5) YE	0818836	8
UC-WMC 4,4 (15X5,5) BU	0818849	8
UC-WMC 4,4 (23X5,5)	0818195	8
UC-WMC 4,4 (23X5,5) RD	0818904	8
UC-WMC 4,4 (23X5,5) YE	0818881	8
UC-WMC 4,4 (23X5,5) BU	0818894	8
UC-WMC 4,4 (30X5,5)	0819657	8
UC-WMC 4,4 (30X5,5) RD	0820882	10
UC-WMC 4,4 (30X5,5) BU	0820879	10

Magazine, for CMS-P1-PLOTTER and PLOTMARK

Accessories		
P1 UC-MAG 2	5146082	1



Clip-on UniCard wire marking


Markers for conductor diameters
from 4.2 to 5.6 mm

Markers for conductor diameters
from 5 to 7.5 mm

General data		Technical data			Technical data		
Can be marked with		BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER			BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER		
Material		PA			PA		
Flammability rating in accordance with UL 94		V2			V2		
Temperature range	[°C]	-40 ... 120			-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen			Free from silicone and halogen		
Conductor diameter range	[mm]	4.2 ... 5.6			5 ... 7.5		
Conductor cross section range	[mm²]	4 ... 10			6 ... 16		
Conductor cross section range	AWG	12 ... 10			10 ... 6		
Ordering data		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
UniCard, for subsequent marking of conductors, lettering field size: 23 x 8 mm, 6-section, 2 individual labels per strip	white	UC-WMC 5,6 (23X8)	0825382	5	UC-WMC 7,5 (23X8)	0818179	5
	red	UC-WMC 5,6 (23X8) RD	0825387	5	UC-WMC 7,5 (23X8) RD	0819039	5
	yellow	UC-WMC 5,6 (23X8) YE	0825386	5	UC-WMC 7,5 (23X8) YE	0818933	5
	blue	UC-WMC 5,6 (23X8) BU	0825383	5	UC-WMC 7,5 (23X8) BU	0818946	5
UniCard, for subsequent marking of conductors, lettering field size: 30 x 8 mm, 6-section, 2 individual labels per strip	white	UC-WMC 5,6 (30X8)	0825396	5	UC-WMC 7,5 (30X8)	0819673	5
	red	UC-WMC 5,6 (30X8) RD	0825401	5	UC-WMC 7,5 (30X8) RD	0820963	5
	yellow	UC-WMC 5,6 (30X8) YE	0825400	5	UC-WMC 7,5 (30X8) YE	0819686	5
	blue	UC-WMC 5,6 (30X8) BU	0825397	5	UC-WMC 7,5 (30X8) BU	0820950	5
Accessories		Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER and PLOTMARK		P1 UC-MAG 3	5146095	1	P1 UC-MAG 3	5146095	1

Wire and cable marking

Slide-on UniCard wire marking

- The UCT-WMCO ... UniCard marking range includes thread-on markers for the subsequent marking of conductors. The markers are easily slid on with the help of the UC-WMCO ... TOOL.
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- Large-surface marking in a space-saving design

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Markers for conductor diameters
from 1.3 to 1.6 mm

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Markers for conductor diameters
from 1.6 to 2.1 mm

General data		Technical data			Technical data		
Can be marked with		BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER			BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER		
Material		PA			PA		
Flammability rating in accordance with UL 94		V2			V2		
Temperature range		-40 ... 120			-40 ... 120		
Components		Free from silicone and halogen			Free from silicone and halogen		
Conductor diameter range		1.3 ... 1.6			1.6 ... 2.1		
Conductor cross section range		0.25 ... 0.5			0.5 ... 0.75		
Description		Ordering data			Ordering data		
UniCard, for subsequent marking of conductors, lettering field size: 12 x 3 mm, 40-section, 10 individual labels per strip		Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
white		UC-WMCO 1,6 (12X3)	0827092	10	UC-WMCO 2,1 (12X3)	0827120	10
red		UC-WMCO 1,6 (12X3) RD	0827516	10	UC-WMCO 2,1 (12X3) RD	0827540	10
yellow		UC-WMCO 1,6 (12X3) YE	0827513	10	UC-WMCO 2,1 (12X3) YE	0827537	10
blue		UC-WMCO 1,6 (12X3) BU	0827514	10	UC-WMCO 2,1 (12X3) BU	0827538	10
UniCard, for subsequent marking of conductors, lettering field size: 21 x 3 mm, 40-section, 10 individual labels per strip		Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
white		UC-WMCO 1,6 (21X3)	0827106	10	UC-WMCO 2,1 (21X3)	0827134	10
red		UC-WMCO 1,6 (21X3) RD	0827528	10	UC-WMCO 2,1 (21X3) RD	0827552	10
yellow		UC-WMCO 1,6 (21X3) YE	0827525	10	UC-WMCO 2,1 (21X3) YE	0827549	10
blue		UC-WMCO 1,6 (21X3) BU	0827526	10	UC-WMCO 2,1 (21X3) BU	0807550	10
Magazine, for CMS-P1-PLOTTER and PLOTMARK		Accessories			Accessories		
Assembly tool, for easily sliding on UC-WMCO 1,6 and UC-WMCO 2,1 conductor markers		P1 UC-MAG 7	5146568	1	P1 UC-MAG 7	5146568	1
Assembly tool set, for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers		UC-WMCO 2,1 TOOL	0827803	10	UC-WMCO 2,1 TOOL	0827803	10
		UC-WMCO TOOL SET	0827807	1	UC-WMCO TOOL SET	0827807	1

Slide-on UniCard wire marking

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Markers for conductor diameters
from 2.1 to 2.9 mm

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Markers for conductor diameters
from 2.9 to 3.6 mm

General data		Technical data			Technical data		
Can be marked with		BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER			BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER		
Material		PA			PA		
Flammability rating in accordance with UL 94		V2			V2		
Temperature range		-40 ... 120			-40 ... 120		
Components		Free from silicone and halogen			Free from silicone and halogen		
Conductor diameter range		2.1 ... 2.9			2.9 ... 3.6		
Conductor cross section range		0.75 ... 1.5			1.5 ... 2.5		
Ordering data		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
UniCard , for subsequent marking of conductors, lettering field size: 12 x 3.5 mm, 40-section, 10 individual labels per strip	white	UC-WMCO 2,9 (12X3,5)	0827148	10			
	red	UC-WMCO 2,9 (12X3,5) RD	0827564	10			
	yellow	UC-WMCO 2,9 (12X3,5) YE	0827561	10			
	blue	UC-WMCO 2,9 (12X3,5) BU	0827562	10			
UniCard , for subsequent marking of conductors, lettering field size: 21 x 3.5 mm, 40-section, 10 individual labels per strip	white	UC-WMCO 2,9 (21X3,5)	0827162	10			
	red	UC-WMCO 2,9 (21X3,5) RD	0827576	10			
	yellow	UC-WMCO 2,9 (21X3,5) YE	0827573	10			
	blue	UC-WMCO 2,9 (21X3,5) BU	0827574	10			
UniCard , for subsequent marking of conductors, lettering field size: 12 x 4.5 mm, 32-section, 8 individual labels per strip	white				UC-WMCO 3,6 (12X4,5)	0827176	10
	red				UC-WMCO 3,6 (12X4,5) RD	0827588	10
	yellow				UC-WMCO 3,6 (12X4,5) YE	0827585	10
	blue				UC-WMCO 3,6 (12X4,5) BU	0827586	10
UniCard , for subsequent marking of conductors, lettering field size: 21 x 4.5 mm, 32-section, 8 individual labels per strip	white				UC-WMCO 3,6 (21X4,5)	0827190	10
	red				UC-WMCO 3,6 (21X4,5) RD	0827600	10
	yellow				UC-WMCO 3,6 (21X4,5) YE	0827597	10
	blue				UC-WMCO 3,6 (21X4,5) BU	0827598	10
Accessories		Accessories			Accessories		
Magazine , for CMS-P1-PLOTTER and PLOTMARK		P1 UC-MAG 7	5146568	1	P1 UC-MAG 7	5146568	1
Assembly tool , for easily sliding on UC-WMCO 2,9 ... and UC-WMCO 3,6 ... conductor markers		UC-WMCO 3,6 TOOL	0827804	10	UC-WMCO 3,6 TOOL	0827804	10
Assembly tool set , for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers		UC-WMCO TOOL SET	0827807	1	UC-WMCO TOOL SET	0827807	1

Marking and labeling – MARKING system

Wire and cable marking

Slide-on UniCard wire marking

- The UCT-WMCO ... marking range includes thread-on markers for the subsequent marking of conductors. The markers are easily slid on with the help of the UC-WMCO ... TOOL.
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements
- The BLUEMARK printing systems, CMS-P1-PLOTTER, and PLOTMARK mark the markers, which are supplied in uniform sheets, quickly and easily

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Markers for conductor diameters
from 3.6 to 4.9 mm

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Markers for conductor diameters
from 3.6 to 4.9 mm

General data	
Can be marked with	
Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	
Conductor diameter range	[mm]
Conductor cross section range	[mm²]

Technical data	
BLUEMARK ID COLOR • BLUEMARK ID COLOR • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER	
PA	
V2	
-40 ... 120	
Free from silicone and halogen	
3.6 ... 4.9	
2.5 ... 4	

Technical data	
BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER	
PA	
V2	
-40 ... 120	
Free from silicone and halogen	
3.6 ... 4.9	
2.5 ... 4	

Description	Color
UniCard , for subsequent marking of conductors, lettering field size: 12 x 5 mm, 24-section, 6 individual labels per strip	
	white
	red
	yellow
	blue
UniCard , for subsequent marking of conductors, lettering field size: 21 x 5 mm, 24-section, 6 individual labels per strip	
	white
	red
	yellow
	blue

Ordering data		
Type	Order No.	Pcs./Pkt.
UC-WMCO 4,9 (12X5)	0827733	5
UC-WMCO 4,9 (12X5) RD	0827737	5
UC-WMCO 4,9 (12X5) YE	0827734	5
UC-WMCO 4,9 (12X5) BU	0827735	5

Ordering data		
Type	Order No.	Pcs./Pkt.
UC-WMCO 4,9 (21X5)	0827747	5
UC-WMCO 4,9 (21X5) RD	0827751	5
UC-WMCO 4,9 (21X5) YE	0827748	5
UC-WMCO 4,9 (21X5) BU	0827749	5

Magazine , for CMS-P1-PLOTTER and PLOTMARK
Assembly tool , for easily sliding on UC-WMCO 4,9 ... conductor markers
Assembly tool set , for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers

Accessories		
P1 UC-MAG 7	5146568	1
UC-WMCO 5,8 TOOL	0827805	10
UC-WMCO TOOL SET	0827807	1

Accessories		
P1 UC-MAG 7	5146568	1
UC-WMCO 5,8 TOOL	0827805	10
UC-WMCO TOOL SET	0827807	1

Wire marking with ferrules that can be marked



Can be marked using:



UV LED technology



Ferrules for conductors with a cross section of 0.5 to 2.5 mm², lettering field size: 15 x 4 mm

- Ferrules that can be marked with BLUEMARK printing systems
- Crimping and marking in one step
- Highly resistant and optimum printing quality, thanks to modern UV printing technology
- Ferrules made from electrolytic copper
- Electroplated
- Corresponding crimping pliers can be found on page 417.

General data

Can be marked with

Material / coating

Temperature range

Components

[°C]

Description	Color
Ferrules , with plastic sleeve that can be marked, color range in accordance with DIN 46228-4: 1990-09	
20 pcs., 0.5 mm ² cross section	white
20 pcs., 0.75 mm ² cross section	gray
20 pcs., 1.0 mm ² cross section	red
20 pcs., 1.5 mm ² cross section	white
20 pcs., 2.5 mm ² cross section	blue

Magazine for BLUEMARK printer, for accommodating ferrules with insulating collar that can be marked

For 0.5-1.5 mm²

For 2.5 mm²

ERC

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED

E-CU / tin-plated (galvanic)

-40 ... 120

Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
AI-WM 0,5-8 WH	3240542	780
AI-WM 0,75-8 GY	3240543	780
AI-WM 1-8 RD	3240544	780
AI-WM 1,5-8 WH	3240545	780
AI-WM 2,5-8 BU	3240572	528

Accessories

BLUEMARK MAG AI-WM	5146567	1
BLUEMARK MAG AI-WM 2,5	5146640	1



Wire and cable marking

UniCard wire marking for marking collars

Can be marked using:



UV LED technology



Plotter



Markers with lettering field size
10 x 4 mm to 18 x 4 mm

- The UC-WMT ... UniCard marking range includes markers for wire marking with marking collars from the PATG/PATO ... system; see page 248.
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- Marked insert strips are simply inserted into the collars. This protects the marking against contamination
- The insert labels are aligned in such a way on the UniCard materials that they can be separated branch-wise. This makes mounting easier
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

PATG/PATO ... system, see page 248.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

[°C]

Components

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER

PA

V2

-40 ... 120

Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 10 x 4 mm, 48-section, 8 individual labels per strip	white	UC-WMT (10X4)	0819372	10
	red	UC-WMT (10X4) RD	0821001	10
	yellow	UC-WMT (10X4) YE	0819385	10
	blue	UC-WMT (10X4) BU	0820992	10
UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 12 x 4 mm, 32-section, 8 individual labels per strip	white	UC-WMT (12X4)	0823517	10
	red	UC-WMT (12X4) RD	0823614	10
	yellow	UC-WMT (12X4) YE	0823591	10
	blue	UC-WMT (12X4) BU	0823575	10
UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 15 x 4 mm, 32-section, 8 individual labels per strip	white	UC-WMT (15X4)	0819398	10
	red	UC-WMT (15X4) RD	0821043	10
	yellow	UC-WMT (15X4) YE	0819408	10
	blue	UC-WMT (15X4) BU	0821030	10
UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 18 x 4 mm, 24-section, 8 individual labels per strip	white	UC-WMT (18X4)	0820293	10
	red	UC-WMT (18X4) RD	0821085	10
	yellow	UC-WMT (18X4) YE	0820303	10
	blue	UC-WMT (18X4) BU	0821072	10

Accessories

Magazine, for CMS-P1-PLOTTER and PLOTMARK

P1 UC-MAG 4	5146105	1



UniCard wire marking for marking collars

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Markers with lettering field size
23 x 4 mm

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Markers with lettering field size
30 x 4 mm

General data		Technical data			Technical data		
Can be marked with		BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER			BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER		
Material		PA			PA		
Flammability rating in accordance with UL 94		V2			V2		
Temperature range		-40 ... 120			-40 ... 120		
Components		Free from silicone and halogen			Free from silicone and halogen		
Ordering data		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 23 x 4 mm, 24-section, 8 individual labels per strip	white	UC-WMT (23X4)	0819411	10			
	red	UC-WMT (23X4) RD	0821124	10			
	yellow	UC-WMT (23X4) YE	0819424	10			
	blue	UC-WMT (23X4) BU	0821111	10			
	silver	UC-WMT (23X4) SR	0802719	10			
UniCard sheet, with insert strips for PATG and PATO marking collars, for lettering field size 30 x 4 mm, 16-section, 8 individual labels per strip	white				UC-WMT (30X4)	0819437	10
	red				UC-WMT (30X4) RD	0821166	10
	yellow				UC-WMT (30X4) YE	0819440	10
	blue				UC-WMT (30X4) BU	0821153	10
Accessories		Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER and PLOTMARK		P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1

Wire and cable marking

UniCard cable marking for assembly with cable ties

Can be marked using:



UV LED technology



Plotter



Markers for cable diameters > 7 mm

- The UCT-WMTB ... and UC-WMTBA ... UniCard marking ranges provide markers for fastening with standard cable ties
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- For large-surface marking of conductors and cables > 7 mm in diameter
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:
For more cable markers for fastening with cable ties, visit: phoenixcontact.net/products
For corresponding cable ties, see from page 614.

General data	
Can be marked with	
Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	
Cable diameter range	[mm]
Cable cross section range	[mm²]

Description	Color
UniCard , for mounting with two cable ties, lettering field size: 44 x 15 mm, 4-section, 1 individual label per strip	
	white
	red
	yellow
	blue
UniCard , for mounting with one cable tie	
3-section, lettering field size: 52 x 30 mm	white
2-section, lettering field size: 52 x 50 mm	white

Magazine , for CMS-P1-PLOTTER and PLOTMARK

Technical data	
BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER	
PA	
V2	
-40 ... 120	
Free from silicone and halogen	
> 7 ... 136	
> 16	

Ordering data		
Type	Order No.	Pcs./Pkt.
UC-WMTB (44X15)	0828376	10
UC-WMTB (44X15) RD	0828377	10
UC-WMTB (44X15) YE	0828379	10
UC-WMTB (44X15) BU	0828381	10
UC-WMTB (52X30)	5775288	10
UC-WMTB (52X50)	5775289	10

Accessories		
P1 UC-MAG 6	5146121	1



UniCard cable marking for assembly with cable ties

Notes:

Cable ties can be used for UC-WMTBA... up to a width of 5 mm.

For corresponding cable ties, see from page 614.

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Markers for cable diameters > 4 mm

PRINTED
FOR YOU



Markers for cable diameters > 6 mm

General data		Technical data			Technical data		
Can be marked with		BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER			BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER		
Material		PA			PA		
Flammability rating in accordance with UL 94		V2			V2		
Temperature range		-40 ... 120			-40 ... 120		
Components		Free from silicone and halogen			Free from silicone and halogen		
Cable diameter range		> 4 ... 136			> 6 ... 136		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
UniCard, for assembly with cable ties, lettering field size: 24 x 5 mm, 12-section, 4 individual labels per strip							
	white	UC-WMTBA (24X5)	0820426	10			
	red	UC-WMTBA (24X5) RD	0820565	10			
	yellow	UC-WMTBA (24X5) YE	0820439	10			
	blue	UC-WMTBA (24X5) BU	0820552	10			
UniCard, for assembly with cable ties, lettering field size: 29 x 6 mm, 12-section, 4 individual labels per strip							
	white				UC-WMTBA (29X8)	0820183	10
	red				UC-WMTBA (29X8) RD	0820604	10
	yellow				UC-WMTBA (29X8) YE	0820390	10
	blue				UC-WMTBA (29X8) BU	0820594	10
UniCard, for assembly with cable ties, lettering field size: 60 x 11 mm, 4-section, 1 individual label per strip							
	white				UC-WMTBA (60X11)	0820468	10
	red				UC-WMTBA (60X11) RD	0820646	10
	yellow				UC-WMTBA (60X11) YE	0820471	10
	blue				UC-WMTBA (60X11) BU	0820633	10
		Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER and PLOTMARK							
		P1 UC-MAG 1	5146079	1	P1 UC-MAG 1	5146079	1

Marking and labeling – MARKING system

Wire and cable marking

UniCard wire marking for marking collars

Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer

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FOR YOU



Markers with lettering field size
from 10 x 4 mm to 18 x 4 mm

- The UCT-WMT ... UniCard marking range includes markers for wire marking with marking collars from the PATG/PATO ... system; see page 248.
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- Marked insert strips are simply inserted into the collars. This protects the marking against contamination
- The insert labels are aligned in such a way on the UniCard materials that they can be separated branch-wise. This makes mounting easier
- The sheets provide space for including function texts
- The UCT sheets can also be used with the THERMOMARK CARD-UCT-MAG7 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:
PATG/PATO ... system, see page 248.

General data

Can be marked with

Material
Flammability rating in accordance with UL 94
Temperature range
Components

[°C]

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0

PC V0

V0

-40 ... 120

Free from silicone and halogen

Ordering data

Description

Color

UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 10 x 4 mm, 60-section

white
red
yellow
blue

UCT-WMT (10X4)
UCT-WMT (10X4) RD
UCT-WMT (10X4) YE
UCT-WMT (10X4) BU

0801430
0801433
0801431
0801437

10
10
10
10

UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 12 x 4 mm, 50-section

white
red
yellow
blue

UCT-WMT (12X4)
UCT-WMT (12X4) RD
UCT-WMT (12X4) YE
UCT-WMT (12X4) BU

0801438
0801440
0801439
0801444

10
10
10
10

UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 15 x 4 mm, 50-section

white
red
yellow
blue

UCT-WMT (15X4)
UCT-WMT (15X4) RD
UCT-WMT (15X4) YE
UCT-WMT (15X4) BU

0801446
0801448
0801447
0801452

10
10
10
10

UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 18 x 4 mm, 40-section

white
red
yellow
blue

UCT-WMT (18X4)
UCT-WMT (18X4) RD
UCT-WMT (18X4) YE
UCT-WMT (18X4) BU

0801462
0801464
0801463
0801468

10
10
10
10

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT-WMT..., UCT-EM (7x10)

Accessories

TMP-UCT-MAG7

0803349

1



UniCard wire marking for marking collars

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Markers with lettering field size
23 x 4 mm/30 x 4 mm

General data		Technical data		
Can be marked with		TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0		
Material		PC V0		
Flammability rating in accordance with UL 94		V0		
Temperature range		-40 ... 120		
Components		Free from silicone and halogen		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 23 x 4 mm	white	UCT-WMT (23X4)	0801453	10
	red	UCT-WMT (23X4) RD	0801455	10
	yellow	UCT-WMT (23X4) YE	0801454	10
	blue	UCT-WMT (23X4) BU	0801460	10
UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 30 x 4 mm	white	UCT-WMT (30X4)	0801422	10
	red	UCT-WMT (30X4) RD	0801424	10
	yellow	UCT-WMT (30X4) YE	0801423	10
	blue	UCT-WMT (30X4) BU	0801428	10
		Accessories		
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-WMT..., UCT-EM (7x10)		TMP-UCT-MAG7	0803349	1

Wire and cable marking

Slide-on UniCard wire marking

Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer

PRINTED
FOR YOU



Markers for conductor diameters
from 1.5 to 4.7 mm

- The UCT-WMS ... UniCard marking range includes markers that can be slid onto conductors
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The markers support multi-line marking
- The sheets provide space for including function texts
- The UCT sheets can also be used with the THERMOMARK CARD-UCT-MAG3 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

[°C]

Components

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0

PC V0

V0

-40 ... 120

Free from silicone and halogen

Ordering data

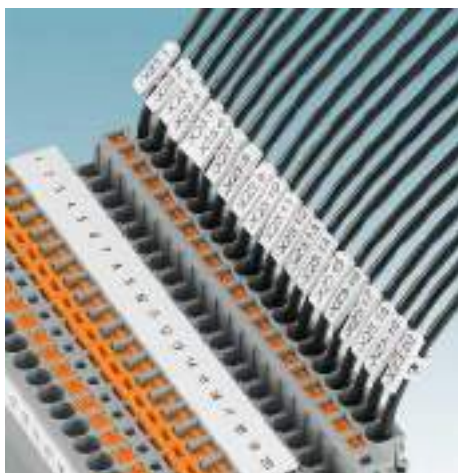
Description	Color
UniCard , conductor diameter 1.5 - 3.2 mm 55-section, lettering field size: 12 x 4 mm	white yellow
UniCard , conductor diameter 2.5 - 4.7 mm 45-section, lettering field size: 12 x 5.5 mm	white yellow

Type	Order No.	Pcs./Pkt.
UCT-WMS 3,2 (12X4)	0828570	8
UCT-WMS 3,2 (12X4) YE	0828572	8
UCT-WMS 4,7 (12X5,5)	0828571	6
UCT-WMS 4,7 (12X5,5) YE	0828573	6

Accessories

Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-WMS...

TMP-UCT-MAG3	0803344	1



Clip-on UniCard wire marking

Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer

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FOR YOU



Markers for conductor diameters
from 1.1 to 7.5 mm

- The UCT-WMCO ... UniCard marking range includes clip-on markers for the subsequent marking of conductors
- Secure tight fit even in the event of vibrations
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- Large-surface marking in a space-saving design
- The sheets provide space for including function texts
- The UCT sheets can also be used with the corresponding THERMOMARK CARD-UCT-MAG25 and 28 magazines in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data

Can be marked with

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniCard , conductor diameter 1.1 - 1.9 mm 24-section, lettering field size: 23 x 4 mm	white	UCT-WMCO 1,9 (23X4)	0832100	9
UniCard , conductor diameter 2 - 2.9 mm 32-section, lettering field size: 12 x 4 mm	white	UCT-WMCO 2,9 (12X4)	0830780	9
	yellow	UCT-WMCO 2,9 (12X4) YE	0831204	9
32-section, lettering field size: 18 x 4 mm	white	UCT-WMCO 2,9 (18X4)	0830781	9
	yellow	UCT-WMCO 2,9 (18X4) YE	0831205	9
24-section, lettering field size: 23 x 4 mm	white	UCT-WMCO 2,9 (23X4)	0832101	9
UniCard , conductor diameter 2.9 - 3.5 mm 32-section, lettering field size: 12 x 4 mm	white	UCT-WMCO 3,5 (12X4)	0830782	7
	yellow	UCT-WMCO 3,5 (12X4) YE	0831206	7
32-section, lettering field size: 18 x 4 mm	white	UCT-WMCO 3,5 (18X4)	0830783	7
	yellow	UCT-WMCO 3,5 (18X4) YE	0831207	7
24-section, lettering field size: 23 x 4 mm	white	UCT-WMCO 3,5 (23X4)	0832102	7
UniCard , conductor diameter 3.5 - 4.1 mm 32-section, lettering field size: 12 x 4 mm	white	UCT-WMCO 4,1 (12X4)	0830784	6
	yellow	UCT-WMCO 4,1 (12X4) YE	0831208	6
32-section, lettering field size: 18 x 4 mm	white	UCT-WMCO 4,1 (18X4)	0830785	6
	yellow	UCT-WMCO 4,1 (18X4) YE	0831209	6
24-section, lettering field size: 23 x 4 mm	white	UCT-WMCO 4,1 (23X4)	0832103	7
UniCard , conductor diameter 4.1 - 4.7 mm 32-section, lettering field size: 12 x 4 mm	white	UCT-WMCO 4,7 (12X4)	0830786	6
	yellow	UCT-WMCO 4,7 (12X4) YE	0831210	6
32-section, lettering field size: 18 x 4 mm	white	UCT-WMCO 4,7 (18X4)	0830787	6
	yellow	UCT-WMCO 4,7 (18X4) YE	0831211	6
24-section, lettering field size: 23 x 4 mm	white	UCT-WMCO 4,7 (23X4)	0832104	6
UniCard , conductor diameter 4.7 - 5.4 mm 18-section, lettering field size: 23 x 8 mm	white	UCT-WMCO 5,4 (23X8)	0832105	5
UniCard , conductor diameter 5.4 - 6.1 mm 18-section, lettering field size: 23 x 8 mm	white	UCT-WMCO 6,1 (23X8)	0832106	5
UniCard , conductor diameter 6.1 - 6.8 mm 18-section, lettering field size: 23 x 8 mm	white	UCT-WMCO 6,8 (23X8)	0832107	4
UniCard , conductor diameter 6.8 - 7.5 mm 18-section, lettering field size: 23 x 8 mm	white	UCT-WMCO 7,5 (23X8)	0832108	4

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating: UCT-WMCO ... (12x4)

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating: UCT-WMCO ... (18x4)

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating: UCT-WMCO ... (23xX)

Accessories

TMP-UCT-MAG25	0803369	1
TMP-UCT-MAG28	0803372	1
TMP-UCT-MAG29	0803373	1



Wire and cable marking

UniCard cable marking for assembly with cable ties

Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer

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Markers for cable diameters > 5 mm

- The UCT-WMTBA ... UniCard marking range provides markers for fastening with standard cable ties
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- For large-surface marking of conductors and cables > 5 mm in diameter
- The sheets provide space for including function texts
- Thanks to their angular shape the markers fit perfectly onto cables
- The UCT sheets can also be used with the THERMOMARK CARD-UCT-MAG27 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

For cable ties up to 5 mm wide.

For matching cable ties, see page 614 onwards or the product area on our website at phoenixcontact.net/products.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

[°C]

Components

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0

PC

V0

-40 ... 120

Free from silicone, halogen, and cadmium

Ordering data

Description	Color
UniCard , for assembly with cable ties, for conductor diameters > 5 mm, 15-section, 5 individual labels per strip	
Lettering field size: 24 x 4 mm	white yellow
UniCard , for assembly with cable ties, for conductor diameters > 6 mm, 12-section, 4 individual labels per strip	
Lettering field size: 29 x 6 mm	white yellow
UniCard , for assembly with cable ties, for conductor diameters > 6 mm, 3-section, 1 individual label per strip	
Lettering field size: 40 x 17 mm	white yellow

Type	Order No.	Pcs./Pkt.
UCT-WMTBA (24X4)	1014082	10
UCT-WMTBA (24X4) YE	1014083	10
UCT-WMTBA (29X6)	1014084	10
UCT-WMTBA (29X6) YE	1014085	10
UCT-WMTBA (40X17)	1014086	10
UCT-WMTBA (40X17) YE	1014087	10

Accessories

Magazine for THERMOMARK CARD and THERMOMARK PRIME
for accommodating UCT-WMTBA (25x6), UCT-WMTBA (29x8),
UCT-WMTBA (40x17)

TMP-UCT-MAG27	0803371	1

Marking and labeling – MARKING system

Wire and cable marking

UniSheet wire marking for marking collars

Can be marked using:



UV LED technology



Thermal transfer



Markers with lettering field size
10 x 4 mm to 15 x 4 mm

- The US-WMT ... UniSheet marking range includes markers for wire marking with marking collars from the PATG/PATO ... system
- The marking systems mark the markers, quickly, easily, and cost-effectively
- Marked insert strips are simply inserted into the collars. This protects the marking against contamination
- The perforated marking strips are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

Notes:

For PATG/PATO... system marking collars, see page 248.

General data

Can be marked with

Number of individual labels
Number of individual labels per strip
Material
Flammability rating in accordance with UL 94
Temperature range
Wipe resistance
Components

[°C]

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME
• THERMOMARK CARD 2.0 • THERMOMARK CARD
112
14
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniSheet , with insert strips for PATG and PATO marking collars, 112-section, lettering field size: 10 x 4 mm				
	white	US-WMT (10X4)	0828765	10
	red	US-WMT (10X4) RD	0829273	10
	yellow	US-WMT (10X4) YE	0828952	10
	blue	US-WMT (10X4) BU	0829277	10
UniSheet , with insert strips for PATG and PATO marking collars, 96-section, lettering field size: 12 x 4 mm				
	white	US-WMT (12X4)	0828766	10
	red	US-WMT (12X4) RD	0829280	10
	yellow	US-WMT (12X4) YE	0828953	10
	blue	US-WMT (12X4) BU	0829284	10
UniSheet , with insert strips for PATG and PATO marking collars, 84-section, lettering field size: 15 x 4 mm				
	white	US-WMT (15X4)	0828767	10
	red	US-WMT (15X4) RD	0829287	10
	yellow	US-WMT (15X4) YE	0828954	10
	blue	US-WMT (15X4) BU	0829291	10

Accessories

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials
Adapter plate for BLUEMARK ID, for accommodating US materials

	Order No.	Pcs./Pkt.
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1



UniSheet wire marking for marking collars

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Markers with lettering field size
18 x 4 to 30 x 4 mm

General data		Technical data		
Can be marked with		BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME • THERMOMARK CARD 2.0 • THERMOMARK CARD		
Number of individual labels per strip		14		
Material		PVC		
Flammability rating in accordance with UL 94		V0		
Temperature range	[°C]	-30 ... 80		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
UniSheet , with insert strips for PATG and PATO marking collars, 70-section, lettering field size: 18 x 4 mm	white	US-WMT (18X4)	0828768	10
	red	US-WMT (18X4) RD	0829294	10
	yellow	US-WMT (18X4) YE	0828955	10
	blue	US-WMT (18X4) BU	0829298	10
UniSheet , with insert strips for PATG and PATO marking collars, 56-section, lettering field size: 23 x 4 mm	white	US-WMT (23X4)	0828769	10
	red	US-WMT (23X4) RD	0829301	10
	yellow	US-WMT (23X4) YE	0828956	10
	blue	US-WMT (23X4) BU	0829305	10
UniSheet , with insert strips for PATG and PATO marking collars, 42-section, lettering field size: 30 x 4 mm	white	US-WMT (30X4)	0828770	10
	red	US-WMT (30X4) RD	0829308	10
	yellow	US-WMT (30X4) YE	0828957	10
	blue	US-WMT (30X4) BU	0829312	10
		Accessories		
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating all US materials Adapter plate for BLUEMARK ID, for accommodating US materials		TMP-US-MAG1	0803341	1
		BM ID-ADAPTER PLATE-US	1044355	1

Wire and cable marking

UniSheet wire marking for assembly with cable ties

Can be marked using:



UV LED technology



Thermal transfer

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Markers for conductor diameters > 13 mm

- The US-WMTB ... UniSheet marking range provides markers for fastening with standard cable ties
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively
- The perforated marking strips are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

Notes:

For corresponding cable ties, see from page 614.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME
• THERMOMARK CARD 2.0 • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Ordering data

Description	Color
UniSheet , markers for fastening with cable ties, for conductor diameter ≥ 13 mm 35-section, lettering field size: 24 x 5 mm	white red yellow blue
24-section, lettering field size: 29 x 8 mm, for conductor diameter ≥ 13 mm	white red yellow blue
12-section, lettering field size: 44 x 15 mm, for conductor diameter ≥ 13 mm	white red yellow blue

Type	Order No.	Pcs./Pkt.
US-WMTB (24X5)	0828771	10
US-WMTB (24X5) RD	0829320	10
US-WMTB (24X5) YE	0828958	10
US-WMTB (24X5) BU	0829324	10
US-WMTB (29X8)	0828772	10
US-WMTB (29X8) RD	0829327	10
US-WMTB (29X8) YE	0828959	10
US-WMTB (29X8) BU	0829331	10
US-WMTB (44X15)	0828773	10
US-WMTB (44X15) RD	0829334	10
US-WMTB (44X15) YE	0828960	10
US-WMTB (44X15) BU	0829338	10

Accessories

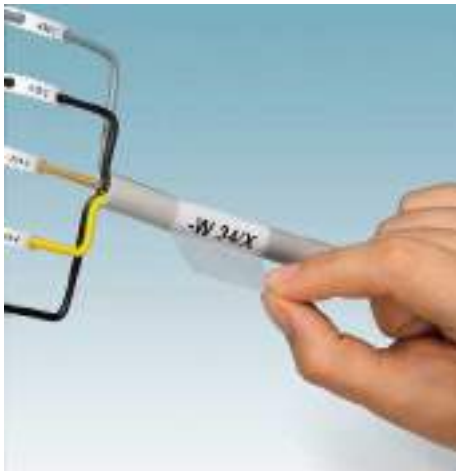
Magazine for THERMOMARK CARD and THERMOMARK PRIME
for accommodating all US materials
Adapter plate for BLUEMARK ID, for accommodating US materials

TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1



Self-adhesive wire marking with transparent protective film

Can be marked using:



UV LED technology



Thermal transfer

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FOR YOU



Markers for conductor diameters of up to 36 mm

- The US-WML ... cable marker labels consist of a marking field and a transparent protective film
- The protective film is wrapped over the marking. This means the film protects against contamination and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively
- Quick and easy handling
- Resistant to solvents
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

General data

Can be marked with

Material

Temperature range

Wipe resistance

Components

[°C]

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME
• THERMOMARK CARD 2.0 • THERMOMARK CARD
PVC
-50 ... 110
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color
Cable marker labels	
32-section, lettering field size: 13 x 13 mm, conductor diameter < 6.0 mm	white
8-section, lettering field size: 19 x 25 mm, conductor diameter < 14.0 mm	white
4-section, lettering field size: 25 x 25 mm, conductor diameter < 36.0 mm	white

Type	Order No.	Pcs./Pkt.
US-WML 6 (13X13)	0800472	10
US-WML 14 (25X19)	0800473	10
US-WML 36 (25X25)	0800474	10

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Adapter plate for BLUEMARK ID, for accommodating US materials

Accessories

	Order No.	Pcs./Pkt.
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1



Marking and labeling – MARKING system

Wire and cable marking

Self-adhesive wire marking with transparent protective film

Can be marked using:



Office laser printing



Markers for conductor diameters of up to 36 mm



- WML ... cable marker labels consist of a marking field and a transparent protective film
- The protective film is wrapped over the marking. This means the film protects against contamination and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- Quick and easy handling
- Resistant to solvents
- Marking service: Phoenix Contact can custom-mark many sheet markers according to your requirements
- **Designation example:**
WML 3 (13x10)A4
Conductor diameter: up to 3 mm Ø
Lettering field width: 13 mm
Lettering field height: 10 mm
Type of packaging: sheet

General data

Can be marked with
Material
Temperature range
Wipe resistance
Components

[°C]

Technical data

Office printing systems
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from halogen and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Cable marker labels, sheet format: A4, self-adhesive				
1 sheet = 156 labels, up to 3.0 mm Ø	white	WML 3 (13X10)A4	0830687	10
1 sheet = 156 labels, up to 3.0 mm Ø	yellow	WML 3 (13X10)A4 YE	0830688	10
1 sheet = 77 labels, up to 5.0 mm Ø	white	WML 5 (25X10)A4	0830689	10
1 sheet = 77 labels, up to 5.0 mm Ø	yellow	WML 5 (25X10)A4 YE	0830690	10
1 sheet = 56 labels, up to 7.5 mm Ø	white	WML 7,5 (25X13)A4	0830691	10
1 sheet = 56 labels, up to 7.5 mm Ø	yellow	WML 7,5 (25X13)A4 YE	0830692	10
1 sheet = 28 labels, up to 14 mm Ø	white	WML 14 (25X19)A4	0830693	10
1 sheet = 28 labels, up to 14 mm Ø	yellow	WML 14 (25X19)A4 YE	0830694	10
1 sheet = 10 labels, up to 22 mm Ø	white	WML 22 (35X25)A4	0830695	10
1 sheet = 10 labels, up to 22 mm Ø	yellow	WML 22 (35X25)A4 YE	0830696	10
1 sheet = 14 labels, up to 36 mm Ø	white	WML 36 (25X38)A4	0830697	10
1 sheet = 14 labels, up to 36 mm Ø	yellow	WML 36 (25X38)A4 YE	0830698	10

Notes:

Print image may vary depending on laser printer



Self-adhesive wire marking with transparent protective film



- The cable marker labels consist of a marking field and a transparent protective film
- The protective film is wrapped over the marking. This means the film protects against contamination and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- Quick and easy handling
- Resistant to solvents

Radio-frequency identification, RFID

- The WML-RFID/HF conductor markers are also equipped with an integrated high-frequency transponder. They are used for contact-free identification, data exchange, and localization with the aid of an RFID handheld device

Notes:
Due to the wide variety of cable and conductor types, the transponder function must always be checked by the end customer.
WML-RFID/HF conductor markers cannot be marked by the THERMOMARK S1.1 and THERMOMARK X1.1.
If you wish to process large rolls with the THERMOMARK ROLL..., use the THERMOMARK ROLL-ERH external media hub. See printers, page 40.



Can be marked using:



Thermal transfer for rolls

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Markers for conductor diameters of up to 46 mm



General data

Can be marked with

Material
Temperature range
Wipe resistance
Components

[°C]

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL PVC
-50 ... 110
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Cable marker labels , can be marked with a thermal transfer printer				
1 roll = 5000 labels, up to 3 mm Ø	white	WML 3 (13X10)R	0800073	1
1 roll = 3000 labels, up to 5 mm Ø	white	WML 5 (25X10)R	0817523	1
1 roll = 3000 labels, up to 5 mm Ø	yellow	WML 5 (25X10)R YE	0830673	1
1 roll = 7000 labels, up to 6 mm Ø	white	WML 6 (13X13)R	0816252	1
1 roll = 7000 labels, up to 6 mm Ø	yellow	WML 6 (13X13)R YE	0830674	1
1 roll = 4000 labels, up to 7.5 mm Ø	white	WML 7,5 (13X13)R	0800074	1
1 roll = 1500 labels, up to 7.5 mm Ø	white	WML 7,5 (17X9)R	0828444	1
1 roll = 2100 labels, up to 7.5 mm Ø	white	WML 7,5 (25X13)R	0800075	1
1 roll = 1000 labels, up to 12 mm Ø	white	WML 12 (25X19)R	0800076	1
1 roll = 1500 labels, up to 14 mm Ø	white	WML 14 (25X19)R	0817536	1
1 roll = 1500 labels, up to 14 mm Ø	yellow	WML 14 (25X19)R YE	0817549	1
1 roll = 1000 labels, up to 14 mm Ø	white	WML 14 (38X19)R	0817552	1
1 roll = 1000 labels, up to 14 mm Ø	yellow	WML 14 (38X19)R YE	0830675	1
1 roll = 2500 labels, up to 18 mm Ø	white	WML 18 (12X12)R	0817507	1
1 roll = 500 labels, up to 20 mm Ø	white	WML 20 (31X25)R	0828457	1
1 roll = 2500 labels, up to 18 mm Ø	white	WML 22 (25X25)R	0800078	1
1 roll = 500 labels, up to 36 mm Ø	white	WML 36 (25X38)R	0817510	1
1 roll = 250 labels, up to 46 mm Ø	white	WML 46 (25X38)R	0800067	1
Cable marker labels , on large roll				
1 roll = 10,000 labels, up to 5 mm Ø	white	WML 5 (25X10)RL	0830676	1
1 roll = 15,000 labels, up to 6 mm Ø	white	WML 6 (13X13)RL	0830677	1
1 roll = 5000 labels, up to 14 mm Ø	white	WML 14 (25X19)RL	0830678	1
1 roll = 3000 labels, up to 14 mm Ø	white	WML 14 (38X19)RL	0830679	1
Cable marker labels , with integrated high-frequency transponder, can be marked with a thermal transfer printer				
Reading performance: max. 0.02 m, depending on the environment				
Frequency: 13.56 MHz,				
Memory capacity: 1 kbps,				
ISO 15693 and ISO 18000-3 mode 1				
1 roll = 750 labels, min. 6 mm to 14 mm Ø	white	WML-RFID/HF 14 (25X19)R	0803386	1

Marking and labeling – MARKING system

Wire and cable marking

Self-adhesive wire marking with transparent protective film, halogen-free



- The halogen-free cable marker labels consist of a marking field and a transparent protective film
- The protective film is wrapped over the marking. This means the film protects against contamination and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- The thermal transfer printer creates a high-quality print image
- Quick and easy handling
- Resistant to solvents
- **Designation example:**
WML HF 3 (13x10)R
HF: halogen-free material
Conductor diameter: up to 3 mm Ø
Lettering field width: 13 mm
Lettering field height: 10 mm
Type of packaging: roll

Can be marked using:



Thermal transfer for rolls

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FOR YOU



Markers for conductor diameters of up to 36 mm

General data

Can be marked with

Material
Temperature range
Wipe resistance
Components

[°C]

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL
Polyethylene
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Cable marker labels, halogen-free				
1 roll = 5000 labels, up to 3 mm Ø	white	WML HF 3(13X10)R	0830812	1
1 roll = 5000 labels, up to 3 mm Ø	yellow	WML HF 3(13X10)R YE	0830813	1
1 roll = 3000 labels, up to 5 mm Ø	white	WML HF 5(25X10)R	0830814	1
1 roll = 3000 labels, up to 5 mm Ø	yellow	WML HF 5(25X10)R YE	0830815	1
1 roll = 2100 labels, up to 7.5 mm Ø	white	WML HF 7,5(25X13)R	0830816	1
1 roll = 2100 labels, up to 7.5 mm Ø	yellow	WML HF 7,5(25X13)R YE	0830817	1
1 roll = 1500 labels, up to 14 mm Ø	white	WML HF 14(25X19)R	0830818	1
1 roll = 1500 labels, up to 14 mm Ø	yellow	WML HF 14(25X19)R YE	0830819	1
1 roll = 2500 labels, up to 18 mm Ø	white	WML HF 22(25X25)R	0830820	1
1 roll = 2500 labels, up to 18 mm Ø	yellow	WML HF 22(25X25)R YE	0830821	1
1 roll = 500 labels, up to 36 mm Ø	white	WML HF 36(25X38)R	0830822	1
1 roll = 500 labels, up to 36 mm Ø	yellow	WML HF 36(25X38)R YE	0830823	1

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1



Self-adhesive wire marking as a flag, vertical



The WML-FLAGV ... wire marking flags support large-surface marking of conductors with a diameter of up to 6 mm perpendicular to the conductor direction. They are characterized by the following:

- Can be printed on both sides
- The thermal transfer printer creates a high-quality print image
- Quick and easy handling
- Resistant to solvents

Notes:

Corresponding ink ribbons can be found in our online shop at phoenixcontact.net/products.

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
Cable marking flags , can be marked with thermal transfer printer	
1 roll = 2500 labels, up to 6 mm Ø, lettering field size: 20 x 10 mm,	white
1 roll = 2500 labels, up to 6 mm Ø, lettering field size: 30 x 10 mm,	white

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Markers for conductor diameters of up to 6 mm

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyolefine
-40 ... 60
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
WML-FLAG 6 (20X10)R	0830711	1
WML-FLAG 6 (30X10)R	0830712	1

Self-adhesive wire marking as a flag, horizontal



The WML-FLAG ... wire marking flags support large-surface marking of conductors with a diameter of up to 6 mm parallel to the conductor direction. They are characterized by the following:

- Can be printed on both sides
- The thermal transfer printer creates a high-quality print image
- Quick and easy handling
- Resistant to solvents

Notes:

Corresponding ink ribbons can be found in our online shop at phoenixcontact.net/products.

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
Cable marking flags	
1 roll = 2500 labels, up to 6 mm Ø, lettering field size: 20 x 10 mm,	white
1 roll = 2500 labels, up to 6 mm Ø, lettering field size: 30 x 10 mm,	white

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Markers for conductor diameters of up to 6 mm

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyolefine
-40 ... 60
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
WML-FLAGV 6 (20X10)R	0830713	1
WML-FLAGV 6 (30X10)R	0830714	1

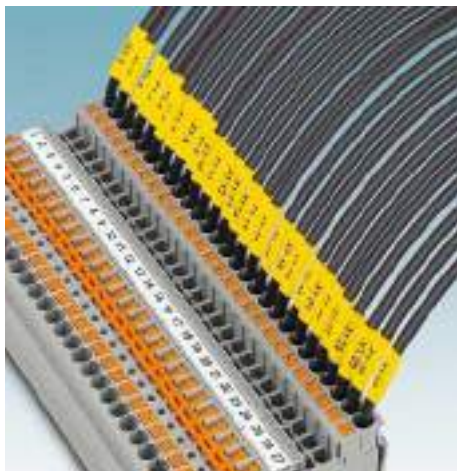
Marking and labeling – MARKING system

Wire and cable marking

Pre-assembled shrink sleeves, halogen-free



- WMS-2 HF ... shrink sleeves provide permanent and captive conductor and cable marking
- The material is available pre-assembled in a handy conductor format
- Up to four markings, separated from each other, are positioned on the carrier material on each row. Each is arranged separately
- Feed the conductor through the sleeve. If required, fix the conductor by shrinking the sleeve
- The shrink sleeves also provide electrical insulation. They also provide mechanical protection
- The shrink ratio is 2:1
- The shrink sleeves can be printed on one side
- The WMS-2 HF ... product range satisfies the stringent requirements of DIN EN 45545-2 (R22/R23/R24:HL3), making it ideal for use in the railway industry



Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Conductor diameter from 1.2 to 50.8 mm,
various colors

General data

Can be marked with

Material
Temperature range
Wipe resistance
Components
Shrink ratio

[°C]

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyolefine
-30 ... 105
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
2:1

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Shrink sleeve, for conductor diameter of 1.2 - 2.4 mm				
1 roll = 4000 markers, each 15 mm long	white	WMS-2 HF 2,4 (15X4)RL	0801000	1
1 roll = 2000 markers, each 30 mm long	yellow	WMS-2 HF 2,4 (15X4)RL YE	0801004	1
	white	WMS-2 HF 2,4 (30X4)RL	0801006	1
1 roll = 1000 markers, each 60 mm long	yellow	WMS-2 HF 2,4 (30X4)RL YE	0801007	1
	white	WMS-2 HF 2,4 (60X4)RL	0801008	1
	yellow	WMS-2 HF 2,4 (60X4)RL YE	0801009	1
Shrink sleeve, for conductor diameter of 1.5 - 3.2 mm				
1 roll = 4000 markers, each 15 mm long	white	WMS-2 HF 3,2 (15X5)RL	0801001	1
1 roll = 2000 markers, each 30 mm long	yellow	WMS-2 HF 3,2 (15X5)RL YE	0801010	1
	white	WMS-2 HF 3,2 (30X5)RL	0801011	1
1 roll = 1000 markers, each 60 mm long	yellow	WMS-2 HF 3,2 (30X5)RL YE	0801012	1
	white	WMS-2 HF 3,2 (60X5)RL	0801002	1
1 roll = 2500 markers, each 60 mm long	yellow	WMS-2 HF 3,2 (60X5)RL YE	0801013	1
	white	WMS-2 HF 3,2 (60X5)RXL	0810100	1
Shrink sleeve, for conductor diameter of 2.4 - 4.8 mm				
1 roll = 4000 markers, each 15 mm long	white	WMS-2 HF 4,8 (15X9)RL	0801014	1
1 roll = 2000 markers, each 30 mm long	yellow	WMS-2 HF 4,8 (15X9)RL YE	0801015	1
	white	WMS-2 HF 4,8 (30X9)RL	0801016	1
1 roll = 1000 markers, each 60 mm long	yellow	WMS-2 HF 4,8 (30X9)RL YE	0801017	1
	white	WMS-2 HF 4,8 (60X9)RL	0801019	1
1 roll = 2500 markers, each 60 mm long	yellow	WMS-2 HF 4,8 (60X9)RL YE	0801020	1
	white	WMS-2 HF 4,8 (60X9)RXL	0810101	1
Accessories				
Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm		THERMOMARK-RIBBON 110-WMSU	0801358	1
Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm		THERMOMARK-RIBBON 110-WMTB HF	5148007	1

Can be marked using:

Notes:

The 110-WMSU, 64-WMSU, 25-WMSU or 110-WMTB HF ink ribbon is required for marking WMS-2 HF shrink sleeves, see printers, page 40.

THERMOMARK ROLL...:

Use the THERMOMARK ROLL-ERH external media hub for R and RL rolls, see printers, page 40.

Use the THERMOMARK ROLL-ERH external media hub for RXL rolls.



Thermal transfer for rolls

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Conductor diameter from 1.2 to 50.8 mm,
various colors

General data

Can be marked with

Material

Temperature range

[°C]

Wipe resistance

Components

Shrink ratio

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyolefine
-30 ... 105
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
2:1

Ordering data

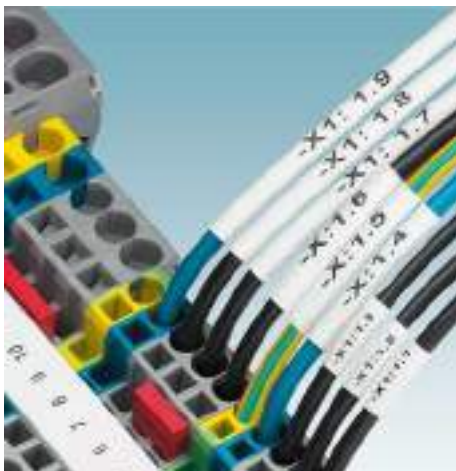
Description	Color	Type	Order No.	Pcs./Pkt.
Shrink sleeve, for conductor diameter of 3.2 - 6.4 mm				
1 roll = 2000 markers, each 30 mm long	white	WMS-2 HF 6,4 (30X10)RL	0801022	1
1 roll = 1000 markers, each 60 mm long	yellow	WMS-2 HF 6,4 (30X10)RL YE	0801023	1
	white	WMS-2 HF 6,4 (60X10)RL	0801024	1
	yellow	WMS-2 HF 6,4 (60X10)RL YE	0801025	1
Shrink sleeve, for conductor diameter of 4.8 - 9.5 mm				
1 roll = 4000 markers, each 15 mm long	white	WMS-2 HF 9,5 (15X16)RL	0801003	1
1 roll = 2000 markers, each 30 mm long	white	WMS-2 HF 9,5 (30X16)RL	0801026	1
1 roll = 1000 markers, each 60 mm long	yellow	WMS-2 HF 9,5 (30X16)RL YE	0801027	1
	white	WMS-2 HF 9,5 (60X16)RL	0801028	1
	yellow	WMS-2 HF 9,5 (60X16)RL YE	0801029	1
Shrink sleeve, for conductor diameter of 6.4 - 12.7 mm				
1 roll = 1000 markers, each 60 mm long	white	WMS-2 HF 12,7 (60X20)RL	0833200	1
	yellow	WMS-2 HF 12,7 (60X20)RL YE	0833201	1
Shrink sleeve, for conductor diameter of 9.5 - 19.1 mm				
1 roll = 1000 markers, each 60 mm long	white	WMS-2 HF 19,1 (60X30)RL	0833202	1
	yellow	WMS-2 HF 19,1 (60X30)RL YE	0833203	1
Shrink sleeve, for conductor diameter of 12.7 - 25.4 mm				
1 roll = 1000 markers, each 60 mm long	white	WMS-2 HF 25,4 (60X40)RL	0833204	1
	yellow	WMS-2 HF 25,4 (60X40)RL YE	0833205	1
Shrink sleeve, for conductor diameter of 19.1 - 38.1 mm				
1 roll = 1000 markers, each 60 mm long	white	WMS-2 HF 38,1 (60X60)RL	0833206	1
	yellow	WMS-2 HF 38,1 (60X60)RL YE	0833207	1

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110-WMSU	0801358	1
THERMOMARK-RIBBON 110-WMTB HF	5148007	1



Marking and labeling – MARKING system

Wire and cable marking

Continuous shrink sleeves, halogen-free



- WMS-2 HF ... shrink sleeves provide permanent and captive conductor and cable marking
- The material is available in continuous format on a roll
- The material can be cut to custom length using the CUTTER unit
- The CUTTER/P perforation unit can be used to perforate the sleeve as required
- Feed the conductor through the sleeve. If required, fix the conductor by shrinking the sleeve
- The shrink sleeves also provide electrical insulation. They also provide mechanical protection
- The shrink ratio is 2:1
- The shrink sleeves can be printed on one side
- The WMS-2 HF ... product range satisfies the stringent requirements of DIN EN 45545-2 (R22/R23/R24:HL3), making it ideal for use in the railway industry

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Conductor diameter from 1.2 to 50.8 mm,
various colors

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	
Shrink ratio	

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK W2
Polyolefine
-30 ... 105
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
2:1

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Shrink sleeve, for conductor diameter of 1.6 - 3.2 mm				
1 roll = 30 m continuous	white	WMS-2 HF 3,2 (EX5)R	0803994	1
1 roll = 120 m continuous	white	WMS-2 HF 3,2 (EX5)RL	0803903	1
	yellow	WMS-2 HF 3,2 (EX5)RL YE	0833242	1
Shrink sleeve, for conductor diameter of 2.4 - 4.8 mm				
1 roll = 30 m continuous	white	WMS-2 HF 4,8 (EX9)R	0803995	1
	yellow	WMS-2 HF 4,8 (EX9)R YE	0804520	1
	blue	WMS-2 HF 4,8 (EX9)R BU	0819991	1
	red	WMS-2 HF 4,8 (EX9)R RD	0819992	1
	green	WMS-2 HF 4,8 (EX9)R GN	0804496	1
	orange	WMS-2 HF 4,8 (EX9)R OG	0804498	1
1 roll = 120 m continuous	white	WMS-2 HF 4,8 (EX9)RL	0803904	1
	yellow	WMS-2 HF 4,8 (EX9)RL YE	0833243	1
Shrink sleeve, for conductor diameter of 3.2 - 6.4 mm				
1 roll = 25 m continuous	blue	WMS-2 HF 6,4 (EX10)R BU	0819993	1
	red	WMS-2 HF 6,4 (EX10)R RD	0819994	1
1 roll = 100 m continuous	white	WMS-2 HF 6,4 (EX10)RL	0803905	1
	yellow	WMS-2 HF 6,4 (EX10)RL YE	0833244	1
1 roll = 20 m continuous	yellow	WMS-2 HF 9,5 (EX16)R YE	0804535	1
	white	WMS-2 HF 9,5 (EX16)R	0804524	1
	blue	WMS-2 HF 9,5 (EX16)R BU	0804525	1
	red	WMS-2 HF 9,5 (EX16)R RD	0804526	1
1 roll = 80 m continuous	yellow	WMS-2 HF 9,5 (EX16)RL YE	0833245	1

Accessories

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 64 mm

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 25 mm

THERMOMARK-RIBBON 110-WMSU	0801358	1
THERMOMARK-RIBBON 110-WMTB HF	5148007	1
THERMOMARK-RIBBON 64-WMSU	0801360	1
THERMOMARK-RIBBON 25-WMSU	0803390	1



Can be marked using:

Notes:

THERMOMARK ROLL...:
Use the THERMOMARK ROLL-ERH external media hub for R and RL rolls, see printers, page 40.

THERMOMARK ROLLMASTER 300 and ROLLMASTER 600, THERMOMARK ROLL X1, THERMOMARK W2:
R rolls can be directly inserted in the device. Use the THERMOMARK ROLL-ERH external media hub for RL rolls, see printers, page 40.



Thermal transfer for rolls

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Conductor diameter from 1.2 to 50.8 mm,
various colors

General data

Can be marked with

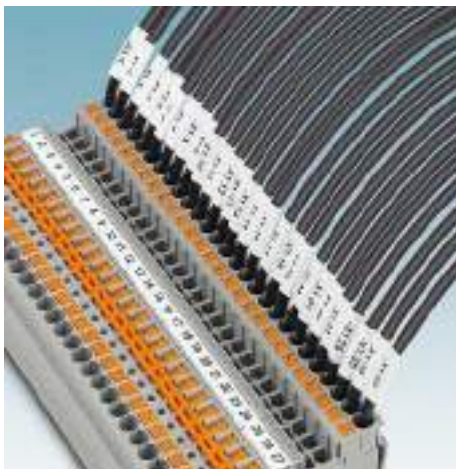
Material	
Temperature range	[°C]
Wipe resistance	
Components	
Shrink ratio	

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK W2
Polyolefine
-30 ... 105
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
2:1

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Shrink sleeve, for conductor diameter of 6.4 - 12.7 mm				
1 roll = 20 m continuous	yellow	WMS-2 HF 12,7 (EX20)R YE	0804521	1
1 roll = 80 m continuous	white	WMS-2 HF 12,7 (EX20)RL	0864100	1
	yellow	WMS-2 HF 12,7 (EX20)RL YE	0833246	1
	red	WMS-2 HF 12,7 (EX20)RL RD	0864101	1
	blue	WMS-2 HF 12,7 (EX20)RL BU	0864102	1
Shrink sleeve, for conductor diameter of 9.5 - 19.1 mm				
1 roll = 20 m continuous	yellow	WMS-2 HF 19,1 (EX30)R YE	0804537	1
1 roll = 80 m continuous	white	WMS-2 HF 19,1 (EX30)RL	0864103	1
	red	WMS-2 HF 19,1 (EX30)RL RD	0864104	1
	blue	WMS-2 HF 19,1 (EX30)RL BU	0864105	1
Shrink sleeve, for conductor diameter of 12.7 - 25.4 mm				
1 roll = 80 m continuous	white	WMS-2 HF 25,4 (EX40)RL	0864106	1
	red	WMS-2 HF 25,4 (EX40)RL RD	0864107	1
	blue	WMS-2 HF 25,4 (EX40)RL BU	0864108	1
Shrink sleeve, for conductor diameter of 19.1 - 38.1 mm				
1 roll = 20 m continuous	yellow	WMS-2 HF 38,1 (EX60)R YE	0804538	1
1 roll = 80 m continuous	blue	WMS-2 HF 38,1 (EX60)RL BU	0864111	1
1 roll = 80 m continuous	red	WMS-2 HF 38,1 (EX60)RL RD	0864110	1
1 roll = 80 m continuous	white	WMS-2 HF 38,1 (EX60)RL	0864109	1
Shrink sleeve, for conductor diameter of 25.4 - 50.8 mm				
1 roll = 15 m continuous	yellow	WMS-2 HF 50,8 (EX80)R YE	0804539	1



Ink ribbon for roll printer, ink color: white, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: white, length: 300 m, width: 64 mm

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 64 mm

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 25 mm

Accessories

THERMOMARK-RIBBON 110-WMSU WH	0801359	1
THERMOMARK-RIBBON 64-WMSU WH	0801361	1
THERMOMARK-RIBBON 64-WMSU	0801360	1
THERMOMARK-RIBBON 25-WMSU	0803390	1



Thermal transfer for rolls



Conductor diameter from 0.8 to 38 mm,
white and yellow

- WMS ... shrink sleeves provide permanent and captive conductor and cable marking
 - The sleeves are pre-assembled for optimum use of material.
 - Up to four markers per sleeve are separated by perforation
 - Thread the conductors to be marked through the sleeve. Then fix the sleeve to the conductor by shrinking it
 - The sleeves remain flexible after shrinking
 - The shrink sleeves provide the conductors with additional electrical insulation and mechanical protection
- The following standards are satisfied:
- UL 224 (125°C, 600 V, all tubing-1)
 - CSA.C22.2 No. 198.1 (125°C, 600 V, all tubing-1)
 - MIL-STD-202G, SAE AMS-DTL-23053, ASTM E162, E662, E1354

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	
Shrink ratio	



Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyolefine
-55 ... 135
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Shrink sleeve, for conductor diameters 0.8 - 2.4 mm				
1 roll = 1000 markers, each 15 mm long	white	WMS 2,4 (15X4)R	0800379	1
	yellow	WMS 2,4 (15X4)R YE	0800412	1
1 roll = 500 markers, each 30 mm long	white	WMS 2,4 (30X4)R	0800373	1
	yellow	WMS 2,4 (30X4)R YE	0800407	1
1 roll = 250 markers, each 60 mm long	white	WMS 2,4 (60X4)R	0800363	1
	yellow	WMS 2,4 (60X4)R YE	0800398	1
Shrink sleeve, for conductor diameters 1.0 - 3.2 mm				
1 roll = 1000 markers, each 15 mm long	white	WMS 3,2 (15X5)R	0800380	1
	yellow	WMS 3,2 (15X5)R YE	0800413	1
1 roll = 500 markers, each 30 mm long	white	WMS 3,2 (30X5)R	0800374	1
	yellow	WMS 3,2 (30X5)R YE	0800408	1
1 roll = 250 markers, each 60 mm long	white	WMS 3,2 (60X5)R	0800364	1
	yellow	WMS 3,2 (60X5)R YE	0800399	1
Shrink sleeve, for conductor diameters 1.6 - 4.8 mm				
1 roll = 1000 markers, each 15 mm long	white	WMS 4,8 (15X9)R	0800382	1
	yellow	WMS 4,8 (15X9)R YE	0800414	1
1 roll = 500 markers, each 30 mm long	white	WMS 4,8 (30X9)R	0800375	1
	yellow	WMS 4,8 (30X9)R YE	0800409	1
1 roll = 250 markers, each 60 mm long	white	WMS 4,8 (60X9)R	0800366	1
	yellow	WMS 4,8 (60X9)R YE	0800400	1
Shrink sleeve, for conductor diameters 2.1 - 6.4 mm				
1 roll = 1000 markers, each 15 mm long	white	WMS 6,4 (15X10)R	0801593	1
1 roll = 500 markers, each 30 mm long	white	WMS 6,4 (30X10)R	0800376	1
	yellow	WMS 6,4 (30X10)R YE	0800410	1
1 roll = 250 markers, each 60 mm long	white	WMS 6,4 (60X10)R	0800367	1
	yellow	WMS 6,4 (60X10)R YE	0800401	1
Shrink sleeve, for conductor diameters 3.2 - 9.5 mm				
1 roll = 500 markers, each 30 mm long	white	WMS 9,5 (30X16)R	0800377	1
	yellow	WMS 9,5 (30X16)R YE	0800411	1
1 roll = 250 markers, each 60 mm long	white	WMS 9,5 (60X16)R	0800368	1
	yellow	WMS 9,5 (60X16)R YE	0800402	1
Shrink sleeve, for conductor diameters 4.2 - 12.7 mm				
1 roll = 500 markers, each 30 mm long	white	WMS 12,7 (30X20)R	0804266	1
1 roll = 250 markers, each 60 mm long	white	WMS 12,7 (60X20)R	0800369	1
	yellow	WMS 12,7 (60X20)R YE	0800403	1
Shrink sleeve, for conductor diameters 6.4 - 19.1 mm				
1 roll = 250 markers, each 60 mm long	white	WMS 19,1 (60X30)R	0800370	1
	yellow	WMS 19,1 (60X30)R YE	0800404	1
Shrink sleeve, for conductor diameters 8.5 - 25.4 mm				
1 roll = 250 markers, each 60 mm long	white	WMS 25,4 (60X40)R	0800371	1
	yellow	WMS 25,4 (60X40)R YE	0800405	1

Pre-assembled shrink sleeves

Notes:
The 110-WMSU, 64-WMSU, 25-WMSU or 64-WMSE ink ribbon is required for marking WMS ... shrink sleeves, see printers, page 40.
THERMOMARK ROLL...: The R roll shrink sleeves are fed into the printer directly from the packaging.
THERMOMARK ROLLMASTER 300 and ROLLMASTER 600, and THERMOMARK ROLL X1: The R roll shrink sleeves are fed into the printer directly from the packaging. R and RXL rolls can be directly inserted in the device.

PRINTED
FOR YOU



Conductor diameter from 0.8 to 19 mm,
white and yellow, on large roll

PRINTED
FOR YOU



Conductor diameter from 0.8 to 6.4 mm,
white and yellow, on extra large roll



Technical data
THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyolefine -55 ... 135 DIN EN 61010-1 (VDE 0411-1) Halogen-free 3:1

Ordering data

Type	Order No.	Pcs./Pkt.
Shrink sleeve , for conductor diameters 0.8 - 2.4 mm		
1 roll = 4000 markers, each 15 mm long 1 roll = 10,000 markers, each 15 mm long	0800389	1
1 roll = 2000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 1000 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long	0800386	1
1 roll = 2500 markers, each 60 mm long	0800383	1
Shrink sleeve , for conductor diameters 1.0 - 3.2 mm		
1 roll = 4000 markers, each 15 mm long 1 roll = 2000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long	0800390	1
1 roll = 2000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long	0800387	1
1 roll = 1000 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long	0800384	1
Shrink sleeve , for conductor diameters 1.6 - 4.8 mm		
1 roll = 4000 markers, each 15 mm long 1 roll = 10,000 markers, each 15 mm long	0800391	1
1 roll = 2000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 1000 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long	0800388	1
1 roll = 2000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 1000 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long	0800385	1
Shrink sleeve , for conductor diameters 2.1 - 6.4 mm		
1 roll = 4000 markers, each 15 mm long 1 roll = 2500 markers, each 15 mm long 1 roll = 2500 markers, each 60 mm long	0801594	1
Shrink sleeve , for conductor diameters 3.2 - 9.5 mm		
1 roll = 2000 markers, each 30 mm long 1 roll = 1000 markers, each 60 mm long 1 roll = 1000 markers, each 60 mm long	0804267	1
1 roll = 1000 markers, each 60 mm long	0803105	1
1 roll = 1000 markers, each 60 mm long	0803106	1
Shrink sleeve , for conductor diameters 4.2 - 12.7 mm		
1 roll = 1000 markers, each 60 mm long	0803107	1
Shrink sleeve , for conductor diameters 6.4 - 19.1 mm		
1 roll = 1000 markers, each 60 mm long	0803108	1

Accessories

THERMOMARK-RIBBON 110-WMSU	0801358	1



Technical data
THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyolefine -55 ... 135 DIN EN 61010-1 (VDE 0411-1) Halogen-free 3:1

Ordering data

Type	Order No.	Pcs./Pkt.
Shrink sleeve , for conductor diameters 0.8 - 2.4 mm		
1 roll = 4000 markers, each 15 mm long 1 roll = 10,000 markers, each 15 mm long	0800396	1
1 roll = 2000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 1000 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long	0800394	1
1 roll = 2500 markers, each 60 mm long	0800392	1
Shrink sleeve , for conductor diameters 1.0 - 3.2 mm		
1 roll = 4000 markers, each 15 mm long 1 roll = 2000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long	0804268	1
1 roll = 2000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long	1019184	1
1 roll = 1000 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long	0803102	1
Shrink sleeve , for conductor diameters 1.6 - 4.8 mm		
1 roll = 4000 markers, each 15 mm long 1 roll = 10,000 markers, each 15 mm long	0800397	1
1 roll = 2000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 1000 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long	0800395	1
1 roll = 2000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 1000 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long	0803313	1
1 roll = 2000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 1000 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long	0800393	1
1 roll = 2000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 5000 markers, each 30 mm long 1 roll = 1000 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long 1 roll = 2500 markers, each 60 mm long	0803103	1
Shrink sleeve , for conductor diameters 2.1 - 6.4 mm		
1 roll = 4000 markers, each 15 mm long 1 roll = 2500 markers, each 15 mm long 1 roll = 2500 markers, each 60 mm long	0801595	1
1 roll = 2500 markers, each 60 mm long	1067778	1
1 roll = 2500 markers, each 60 mm long	0803104	1
Shrink sleeve , for conductor diameters 3.2 - 9.5 mm		
1 roll = 2000 markers, each 30 mm long 1 roll = 1000 markers, each 60 mm long 1 roll = 1000 markers, each 60 mm long		
1 roll = 1000 markers, each 60 mm long		
Shrink sleeve , for conductor diameters 4.2 - 12.7 mm		
1 roll = 1000 markers, each 60 mm long		
Shrink sleeve , for conductor diameters 6.4 - 19.1 mm		
1 roll = 1000 markers, each 60 mm long		

Accessories

THERMOMARK-RIBBON 110-WMSU	0801358	1

Continuous shrink sleeves

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Conductor diameter from 0.8 to 50.8 mm,
white



- Equip your printer with the CUTTER/P perforation unit, to automatically perforate shrink sleeves to the desired length
- Thanks to the CUTTER cutting unit, the shrink sleeves in continuous format can be individually cut
- The THERMOMARK W2 continuously prints shrink sleeves in rolls on both sides
- Individual markers are cut to any length
- The following standards are satisfied:
 - UL 224 (125°C, 600 V, all tubing-1)
 - CSA.C22.2 No. 198.1 (125°C, 600 V, all tubing-1)
 - MIL-STD-202G, SAE AMS-DTL-23053, ASTM E162, E662, E1354

Notes:

For marking WMS ... shrink sleeves, the ink ribbon 110-WMSU, 64-WMSU, 25-WMSU, 64-WMSE, 110-WMSU WH or 64-WMSU WH is required, see printers, page 40.

THERMOMARK ROLL...:

Use the THERMOMARK ROLL-ERH external media hub for R and RL rolls, see printers, page 40.

THERMOMARK ROLLMASTER 300 and ROLLMASTER 600, THERMOMARK ROLL X1, THERMOMARK W2:

R rolls can be directly inserted in the device. Use the THERMOMARK ROLL-ERH external media hub for RL rolls, see printers, page 40.

General data

Can be marked with

Material
Temperature range
Wipe resistance
Components
Shrink ratio

[°C]

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK W2
Polyolefine
-55 ... 135
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Ordering data

Description

Shrink sleeve

1 roll = 30 m, conductor diameter: 0.8 - 2.4 mm

1 roll = 30 m, conductor diameter: 1.0 - 3.2 mm

1 roll = 30 m, conductor diameter: 1.6 - 4.8 mm

1 roll = 25 m, conductor diameter: 2.1 - 6.4 mm

1 roll = 20 m, conductor diameter: 3.2 - 9.5 mm

1 roll = 20 m, conductor diameter: 4.2 - 12.7 mm

1 roll = 20 m, conductor diameter: 6.4 - 19.1 mm

1 roll = 15 m, conductor diameter: 8.5 - 25.4 mm

1 roll = 15 m, conductor diameter: 12.7 - 38.1 mm

1 roll = 15 m, conductor diameter: 16.9 - 50.8 mm

Shrink sleeve, large roll

1 roll = 120 m, conductor diameter: 0.8 - 2.4 mm

1 roll = 120 m, conductor diameter: 1.0 - 3.2 mm

1 roll = 120 m, conductor diameter: 1.6 - 4.8 mm

1 roll = 100 m, conductor diameter: 2.1 - 6.4 mm

1 roll = 80 m, conductor diameter: 3.2 - 9.5 mm

1 roll = 80 m, conductor diameter: 4.2 - 12.7 mm

1 roll = 80 m, conductor diameter: 6.4 - 19.1 mm

1 roll = 60 m, conductor diameter: 8.5 - 25.4 mm

Type

WMS 2,4 (EX4)R

WMS 3,2 (EX5)R

WMS 4,8 (EX9)R

WMS 6,4 (EX10)R

WMS 9,5 (EX16)R

WMS 12,7 (EX20)R

WMS 19,1 (EX30)R

WMS 25,4 (EX40)R

WMS 38,1 (EX60)R

WMS 50,8 (EX80)R

WMS 2,4 (EX4)RL

WMS 3,2 (EX5)RL

WMS 4,8 (EX9)RL

WMS 6,4 (EX10)RL

WMS 9,5 (EX16)RL

WMS 12,7 (EX20)RL

WMS 19,1 (EX30)RL

WMS 25,4 (EX40)RL

Order No.

0800289

0800290

0800291

0800292

0800293

0800294

0800295

0800296

0800298

0800299

0800319

0800320

0800321

0800322

0800324

0800325

0800326

0800327

Pcs./Pkt.

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

Accessories

THERMOMARK-RIBBON 110-WMSU
THERMOMARK-RIBBON 64-WMSU
THERMOMARK-RIBBON 64-WMSE
THERMOMARK-RIBBON 25-WMSU

0801358

0801360

5145724

0803390

1

1

1

1

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: white, length: 300 m, width: 110 mm



PRINTED
FOR YOU

Conductor diameter from 0.8 to 50.8 mm,
yellow



PRINTED
FOR YOU

Conductor diameter from 0.8 to 50.8 mm,
black



Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK W2
Polyolefine
-55 ... 135
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK W2
Polyolefine
-55 ... 135
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Ordering data

Type	Order No.	Pcs./Pkt.
WMS 2,4 (EX4)R YE	0800300	1
WMS 3,2 (EX5)R YE	0800301	1
WMS 4,8 (EX9)R YE	0800302	1
WMS 6,4 (EX10)R YE	0800303	1
WMS 9,5 (EX16)R YE	0800304	1
WMS 12,7 (EX20)R YE	0800305	1
WMS 19,1 (EX30)R YE	0800306	1
WMS 25,4 (EX40)R YE	0800308	1
WMS 38,1 (EX60)R YE	0800309	1
WMS 50,8 (EX80)R YE	0800311	1
WMS 2,4 (EX4)RL YE	0800328	1
WMS 3,2 (EX5)RL YE	0800329	1
WMS 4,8 (EX9)RL YE	0800330	1
WMS 6,4 (EX10)RL YE	0800331	1
WMS 9,5 (EX16)RL YE	0800332	1
WMS 12,7 (EX20)RL YE	0800333	1
WMS 19,1 (EX30)RL YE	0800334	1
WMS 25,4 (EX40)RL YE	0800335	1

Ordering data

Type	Order No.	Pcs./Pkt.
WMS 2,4 (EX4)R BK	0800415	1
WMS 3,2 (EX5)R BK	0800416	1
WMS 4,8 (EX9)R BK	0800418	1
WMS 6,4 (EX10)R BK	0800419	1
WMS 9,5 (EX16)R BK	0800421	1
WMS 12,7 (EX20)R BK	0800422	1
WMS 19,1 (EX30)R BK	0800423	1
WMS 25,4 (EX40)R BK	0800424	1
WMS 38,1 (EX60)R BK	0800425	1
WMS 50,8 (EX80)R BK	0800426	1
WMS 2,4 (EX4)RL BK	0800427	1
WMS 3,2 (EX5)RL BK	0800428	1
WMS 4,8 (EX9)RL BK	0800429	1
WMS 6,4 (EX10)RL BK	0800430	1
WMS 9,5 (EX16)RL BK	0800431	1
WMS 12,7 (EX20)RL BK	0800432	1
WMS 19,1 (EX30)RL BK	0800434	1
WMS 25,4 (EX40)RL BK	0800435	1

Accessories

THERMOMARK-RIBBON 110-WMSU	0801358	1
THERMOMARK-RIBBON 64-WMSU	0801360	1
THERMOMARK-RIBBON 64-WMSE	5145724	1
THERMOMARK-RIBBON 25-WMSU	0803390	1

Accessories

THERMOMARK-RIBBON 110-WMSU WH	0801359	1
THERMOMARK-RIBBON 64-WMSU WH	0801361	1

Marking sleeves

Can be marked using:

new



Thermal transfer for rolls



Conductor diameter from 1.2 to 4.8 mm,
white and yellow

The WMS-OT HF ... marking sleeves are used to mark conductors and cables

- The large opening in the material means that the cable can be fed quickly and easily through the sleeve
- The marking sleeves are not shrinkable
- The material is available in continuous format on a roll
- The material can be cut to custom length using the CUTTER unit
- The CUTTER/P perforation unit can be used to perforate the sleeve as required
- The marking sleeves can be printed on both sides
- The WMS-OT HF ... product range satisfies the stringent requirements of DIN EN 45545-2 (R22/R23/R24:HL3), making it ideal for use in the railway industry

Notes:

THERMOMARK ROLL..., THERMOMARK ROLL X1, THERMOMARKROLLMASTER 300, THERMOMARK ROLLMASTER 600, THERMOMARK X1.2, THERMOMARK W2
Use the THERMOMARK ROLL-ERH external media hub for R and RL rolls, see printers, page 40.

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK W2
Polyolefine
-30 ... 125
DIN EN 61010-1 (VDE 0411-1)
Halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Marking sleeve, for conductor diameter from 0.8 to 3.2 mm				
1 roll = 30 m	white	WMS-OT HF 3,2 (EX5)R	1044236	1
1 roll = 30 m	yellow	WMS-OT HF 3,2 (EX5)R YE	1044239	1
1 roll = 120 m	white	WMS-OT HF 3,2 (EX5)RL	1044253	1
1 roll = 120 m	yellow	WMS-OT HF 3,2 (EX5)RL YE	1044254	1
Marking sleeve, for conductor diameter from 1.6 to 4.8 mm				
1 roll = 30 m	white	WMS-OT HF 4,8 (EX9)R	1044243	1
1 roll = 30 m	yellow	WMS-OT HF 4,8 (EX9)R YE	1044245	1
1 roll = 120 m	white	WMS-OT HF 4,8 (EX9)RL	1044256	1
1 roll = 120 m	yellow	WMS-OT HF 4,8 (EX9)RL YE	1044259	1

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 25 mm

Accessories

TM-RIBBON 25 BK 102	1053499	1

Insertable wire marking for marking collars



- EMT ... insert labels for marking various marking collars
- Thanks to their special contour, EMT ... insert labels remain securely inside the collar once inserted
- Quick and cost-effective marking with THERMOMARK ... roll printers from Phoenix Contact
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many conductor markers according to your requirements
- **Designation example:**
EMT (10x4)R
 Lettering field width: 10 mm
 Lettering field height: 4 mm
 Type of packaging: roll

Notes:

PATG/PATO ... system, see page 248.

KMK ..., see page 236.

LM ..., see page 237.

The WMT (15x4)RL can only be printed using the THERMOMARK ROLLMASTER 300/600. In addition, the tear-off edge must be unscrewed from the printer.

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Insert labels for marker carriers

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
 -40 ... 120
 DIN EN 61010-1 (VDE 0411-1)
 Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Insert strips , can be marked with thermal transfer printer				
1 roll = 7500 markers	white	EMT (10X4)R	0816235	1
1 roll = 7500 markers	white	EMT (15X4)R	0817329	1
	red	EMT (15X4)R RD	0816249	1
	yellow	EMT (15X4)R YE	0817358	1
	blue	EMT (15X4)R BU	0817332	1
1 roll = 5000 markers	white	EMT (23X4)R	0817361	1
	yellow	EMT (23X4)R YE	0817374	1
1 roll = 5000 markers	white	EMT (24X4)R	0816265	1
1 roll = 5000 markers	white	EMT (25X6)R	0817264	1
1 roll = 5400 markers	white	EMT (29X8)R	0817277	1
	yellow	EMT (29X8)R YE	0817280	1
	turquoise	EMT (31X12,5)R TQ	1073887	1
1 roll = 2300 markers	white	EMT (40X17)R	0817293	1
	gray	EMT (50X18,8)R GY	1003223	1
1 roll = 500 insert strips	white	EMT (50X18,8)R	1003224	1
1 roll = 2500 markers	white	EMT (60X15)R	0801846	1
1 roll = 10,000 markers	white	WMT (15X4)RL	1080099	1
Insert strips , for PATG/PATO, perforated, DIN A4 sheet, lettering field size: 15 x 4 mm, 1 sheet = 360 labels, for office laser printers				
	white	PABL 15X4	0808260	10

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110-WMTB HF	5148007	1



Wire and cable marking

Thread-on wire marking

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Markers for conductor diameters
from 1.0 to 8.4 mm

- The conductor is threaded through the two punch-outs on the marker. In this way, the marker is aligned on the conductor
- The special hole geometry ensures a strong axial hold
- Quick and cost-effective marking with THERMOMARK ... roll printers from Phoenix Contact
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many conductor markers according to your requirements
- **Designation example:**
WMT 2,4 (15 x 4)R
Conductor diameter: up to 2.4 mm
Lettering field width: 15 mm
Lettering field height: 4 mm
Type of packaging: roll

General data	
Can be marked with	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data
THERMOMARK ROLLMARKER 300 • THERMOMARK ROLLMARKER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
Thread-on conductor markers , can be marked with thermal transfer printer	
1 roll = 4000 markers, conductor diameter: 1.0 ... 2.4 mm	white
1 roll = 4000 markers, conductor diameter: 2.0 ... 3.5 mm	white
1 roll = 4000 markers, conductor diameter: 3.0 ... 4.2 mm	white
1 roll = 4000 markers, conductor diameter: 4.0 ... 5.5 mm	white
1 roll = 4000 markers, conductor diameter: 5.0 ... 8.4 mm	white

Ordering data		
Type	Order No.	Pcs./Pkt.
WMT 2,4 (15X4)R	0816281	1
WMT 3,5 (15X5)R	0817222	1
WMT 4,2 (15X6)R	0817235	1
WMT 5,5 (15X8)R	0817248	1
WMT 8,4 (17X10)R	0817251	1

Ink ribbon for roll printer , ink color: black, length: 300 m, width: 110 mm

Accessories		
THERMOMARK-RIBBON 110-WMTB HF	5148007	1



Wire marking for cable tie assembly

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Markers for conductor diameters
of 6 mm and above

- Wire marking, for marking and bundling conductors indoors
- The WT ... cable ties are attached to both fastening lugs on the marker
- Quick and cost-effective marking with THERMOMARK ... roll printers from Phoenix Contact
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many conductor markers according to your requirements
- **Designation example:**
WMTB (24x8) R
Lettering field width: 24 mm
Lettering field height: 8 mm
Type of packaging: roll

Notes:
For corresponding cable ties, see from page 614.

General data	
Can be marked with	
Material	
Temperature range	[°C]
Wipe resistance	
Components	
Description	Color
Cable markers for assembly with cable ties , max. cable tie width: 5 mm, can be marked with thermal transfer printer	
1 roll = 4000 markers	white
1 roll = 1700 markers	white
Ink ribbon for roll printer , ink color: black, length: 300 m, width: 110 mm	

Technical data		
THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
WMTB (24x8)R	0816278	1
WMTB (35x15)R	0817316	1
Accessories		
THERMOMARK-RIBBON 110-WMTB HF	5148007	1



Wire and cable marking

Wire marking for cable tie assembly

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Markers for conductor diameters
of 6 mm and above

The halogen-free wire and cable marking is used for marking and bundling conductors and cables indoors and outdoors

- Made from high-quality thermoplastic polyether urethane
- Highly flexible material, adapts to the bending of the conductors or cables
- The carrier material is ideal for printing additional markings, e.g., project information. This makes it easier to assign the markers during mounting
- Very high tensile strength
- Flame-retardant material
- The marker is attached to the conductor with cable ties. There are two fastening lugs for this
- Marking service: Phoenix Contact can custom-mark many conductor markers according to your requirements
- **Designation example:**
WMTB HF (40x12)R
HF: halogen-free material
Lettering field width: 40 mm
Lettering field height: 12 mm
Type of packaging: roll

Notes:

For corresponding cable ties, see from page 614.

General data

Can be marked with

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK ROLLMARKER 300 • THERMOMARK ROLLMARKER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL PUR
V0
-25 ... 80
DIN EN 61010-1 (VDE 0411-1)
Halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Cable markers for assembly with cable ties, max. cable tie width: 5 mm, can be marked with thermal transfer printer				
1 roll = 1000 markers	white	WMTB HF (40X12)R	0830407	1
	yellow	WMTB HF (40X12)R YE	0830408	1
	red	WMTB HF (40X12)R RD	0803314	1
	dark blue	WMTB HF (40X12)R DBU	0802991	1
	blue	WMTB HF (40X12)R BU	0804977	1
1 roll = 1000 markers	green	WMTB HF (40X12)R GN	0804978	1
	white	WMTB HF (55X15)R	0830409	1
	yellow	WMTB HF (55X15)R YE	0830410	1
	red	WMTB HF (55X15)R RD	0803315	1
	dark blue	WMTB HF (55X15)R DBU	0802992	1
1 roll = 500 markers	blue	WMTB HF (55X15)R BU	0804979	1
	green	WMTB HF (55X15)R GN	0804980	1
	white	WMTB HF (55X25)R	0830411	1
	yellow	WMTB HF (55X25)R YE	0830412	1
	red	WMTB HF (55X25)R RD	0803316	1
	dark blue	WMTB HF (55X25)R DBU	0802993	1
	blue	WMTB HF (55X25)R BU	0804981	1
	green	WMTB HF (55X25)R GN	0804982	1

Accessories

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm				
Ink ribbon for roll printer, ink color: white, length: 300 m, width: 110 mm				
THERMOMARK-RIBBON 110-WMTB HF	5148007			1
TM-RIBBON 110-WMTB HF WH	0802990			1



Conductor marker carriers for assembly with cable ties, for labels with laminated protective film



- The WM-CARRIER /B ... conductor marker carriers consist of a marking field for labels and a transparent, self-adhesive laminated protective film
- The protective film provides permanent protection against contamination and abrasion
- The thermal transfer printer creates a high-quality print image
- Quick and easy handling
- The marker is attached to the conductor with cable ties. There are two fastening lugs for this
- Resistant to solvents
- Marking service: Phoenix Contact can custom-mark many cable marker labels according to your requirements

Notes:

For corresponding cable ties, see from page 614.



Markers for conductor diameters of 6 mm and above

General data

Material	PVC/polyester
Temperature range	-10 ... 60 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Halogen-free

Description

Conductor marker carriers, maximum cable tie width: 5 mm

Lettering field size: 48 x 10 mm	transparent
Lettering field size: 55 x 15 mm	transparent
Lettering field size: 85 x 15 mm	transparent

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Labels, can be marked with a thermal transfer printer

1 roll = 2500 labels	white
1 roll = 2500 labels	yellow
1 roll = 2500 labels	white
1 roll = 2500 labels	yellow
1 roll = 2500 labels	white
1 roll = 2500 labels	yellow

Technical data

Material	PVC/polyester
Temperature range	-10 ... 60
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Halogen-free

Ordering data

Type	Order No.	Pcs./Pkt.
WM-CARRIER/B (48X10)LPR	0830423	100
WM-CARRIER/B (55X15)LPR	0830424	100
WM-CARRIER/B (85X15)LPR	0830425	100

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1
EML (40X6)R	0830481	1
EML (40X6)R YE	0830482	1
EML (50X10)R	0830483	1
EML (50X10)R YE	0830484	1
EML (75X10)R	0830485	1
EML (75X10)R YE	0830486	1



Marking and labeling – MARKING system

Wire and cable marking

Plastic cable markers for insert labels, for assembly with cable ties



- The KMK ... versions have eyelets and are attached with cable ties
- Plastic cable markers mark and bundle conductors and cables indoors
- The sealing cap protects the marked insert label from contamination
- Marking service: Phoenix Contact can custom-mark many insert labels for plastic cable markers according to your requirements
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- **Designation example:**
ESL (25x6)
Lettering field width: 25 mm
Lettering field height: 6 mm
Type of packaging: sheet

Notes:

For corresponding cable ties, see from page 614.



Lettering field size 25 x 6 mm,
for cable diameter > 6 mm

General data	
Material	Polyethylene
Temperature range	-40 ... 80 [°C]
Components	Free from silicone and halogen

Description	Color
Cable marker carrier for cable tie assembly	
Lettering field size: 25 x 6 mm	transparent
Lettering field size: 29 x 8 mm	transparent
Lettering field size: 40 x 17 mm	transparent
Lettering field size: 60 x 15 mm	transparent

Insert labels, DIN A4 , can be marked with laser printer	
1 sheet = 252 labels	
1 sheet = 174 labels	
1 sheet = 56 labels	
Roll , insert labels, can be marked with THERMOMARK ROLL, THERMOMARK ROLLMASTER 300, THERMOMARK ROLLMASTER 600	
1 roll = 5000 markers	
1 roll = 5400 markers	
1 roll = 2300 markers	
1 roll = 2500 markers	
UniSheet , insert labels, can be marked with THERMOMARK PRIME, THERMOMARK CARD, BLUEMARK ID, and BLUEMARK ID COLOR	
1 UniSheet = 84 labels	
1 UniSheet = 48 labels	
1 UniSheet = 16 labels	
1 UniSheet = 9 labels	
Magazine for THERMOMARK CARD and THERMOMARK PRIME	
for accommodating all US materials	
Adapter plate for BLUEMARK ID, for accommodating US materials	

Technical data		
Polyethylene		
-40 ... 80		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs./Pkt.
KMK 1	0830745	100

Accessories		
ESL (25X6)	0801849	10
EMT (25X6)R	0817264	1
US-EMP (25X6)-1	0802754	10
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1





Lettering field size 29 x 8 mm,
for cable diameter > 6 mm



Lettering field size 40 x 17 mm,
for cable diameter > 9 mm



Lettering field size 60 x 15 mm,
for cable diameter > 9 mm

Technical data		
Polyethylene -40 ... 80 Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
KMK 2	1005266	100
KMK 2-1000	0815004	1000

Accessories		
ESL 29X8	0808257	10
EMT (29X8)R	0817277	1
US-EMP (29X8)	0829436	10
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

Technical data		
Polyethylene -40 ... 80 Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
KMK 4	1005305	50

Accessories		
ESL 40X17	0808095	10
EMT (40X17)R	0817293	1
US-EMP (40X17)	0829437	10
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

Technical data		
Polyethylene -40 ... 80 Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
KMK 5	0830746	50

Accessories		
ESL 60X15	0808095	10
EMT (60X15)R	0801846	1
US-EMP (60X15)	0828781	10
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

Wire and cable marking

Plastic cable markers for insert labels, for assembly with cable ties



- Plastic cable markers mark and bundle conductors and cables indoors
- The sealing cap protects the marked insert label from contamination
- Marking service: Phoenix Contact can custom-mark many insert labels for plastic cable markers according to your requirements
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- **Designation example:**
ESL(29x8)
Lettering field width: 29 mm
Lettering field height: 8 mm
Type of packaging: sheet

Notes:
For corresponding cable ties, see from page 614.
The print image may vary depending on the laser printer.



For insert labels with lettering field size 29 x 8 mm, for cable diameters > 10 mm

General data
Material
Temperature range [°C]
Components

Technical data
Polyethylene
-40 ... 80
Free from silicone and halogen

Description	Color

Plastic cable markers for insert labels, with cable ties with a pointed end, can be marked with ESL..., EMT... or US-EMP... insert labels, diameter: 10 ... 25 mm, lettering field size: 29 x 8 mm

transparent

Plastic cable markers for insert labels, with cable ties with a pointed end, can be marked with ESL..., EMT... or US-EMP... insert labels, diameter: 16 ... 35 mm, lettering field size: 40 x 17 mm

transparent

Cable and conductor markers for insert labels, can be marked with EST or ESL, diameter of 1 - 12 mm, lettering field size: 24 x 4 mm

white

Cable and conductor markers for labels, can be marked with EML or EMLC, diameter of 1 - 20 mm, lettering field size: 20 x 8 mm

white

Ordering data

Type	Order No.	Pcs./Pkt.
KMK	1005208	100

Accessories

ESL 29X8	0808257	10
EMT (29X8)R	0817277	1
US-EMP (29X8)	0829436	10
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

Insert strips for laser printers, DIN A4, perforated

1 sheet = 174 labels
1 sheet = 56 labels
1 sheet = 488 labels

Roll, insert labels, can be marked with thermal transfer printer

1 roll = 5400 markers
1 roll = 2300 markers
1 roll = 5000 markers

UniSheet, insert labels, can be marked with THERMOMARK PRIME, THERMOMARK CARD, BLUEMARK ID, and BLUEMARK ID COLOR

1 UniSheet = 48 labels
1 UniSheet = 16 labels

Textile label

1 roll = 2500 labels
1 roll = 2500 labels

UniSheet, self-adhesive labels for thermal transfer printers

1 UniSheet = 64 labels, lettering field size: 20 x 8 mm

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Adapter plate for BLUEMARK ID, for accommodating US materials





Insert label, with lettering field size
40 x 17 mm, for cable diameters > 16 mm



For insert labels with lettering field size
24 x 4 mm, for cable diameters > 1 mm



For adhesive labels, with lettering field size
20 x 8 mm, for cable diameters > 1 mm

Technical data		
Polyethylene		
-40 ... 80		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs./Pkt.

KMK 3	1005211	50

Accessories		
ESL 40X17	0808095	10

EMT (40X17)R	0817293	1

US-EMP (40X17)	0829437	10

TMP-US-MAG1	0803341	1

BM ID-ADAPTER PLATE-US	1044355	1

Technical data		
PA		
-40 ... 100		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs./Pkt.

LM	1004377	100

Accessories		
ESL 24X4	0808231	10

EMT (24X4)R	0816265	1

Technical data		
PA		
-40 ... 100		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs./Pkt.

KME	0807083	50

Accessories		

EMLC (20X8)R	0815680	1
EML (20X8)R	0816786	1

US-EML (20X8)	0800458	10

TMP-US-MAG1	0803341	1

BM ID-ADAPTER PLATE-US	1044355	1

Wire and cable marking

Plastic cable markers for insert labels, for assembly with cable ties



- KMK HP ... plastic cable markers mark and bundle conductors and cables indoors
- Flammability rating V0 in accordance with UL 94
- The KMK HP ... cable markers are particularly suitable for use in the railway industry, transportation technology, and building technology, thanks to their outstanding material properties
- The KMK ... versions have eyelets and are attached with cable ties
- The sealing cap protects the marked insert label from contamination
- Marking service: Phoenix Contact can custom-mark many insert labels for plastic cable markers according to your requirements
- The UCT sheets can also be used with the THERMOMARK CARD-UCT-MAG26 magazine in THERMOMARK CARD ...
- **Designation example:**
UCT-EMP (25x6)
Lettering field width: 25 mm
Lettering field height: 6 mm
Type of packaging: sheet

Notes:

For matching cable ties, see page 588 onwards or the product area on our website at phoenixcontact.net/products.



Lettering field size: 25 x 6 mm,
for cable diameter > 6 mm

General data

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	

Description

Cable marker carrier for cable tie assembly	transparent

UniCard, insert strip for KMK... cable marker carriers, can be marked with THERMOMARK CARD, BLUEMARK, and TOPMARK

- 1 sheet = 15 labels
- 1 sheet = 15 labels
- 1 sheet = 3 labels
- 1 sheet = 3 labels

Roll, insert labels, can be marked with THERMOMARK ROLL, THERMOMARK ROLLMASTER 300, THERMOMARK ROLLMASTER 600

- 1 roll = 5000 markers
- 1 roll = 5400 markers
- 1 roll = 2500 markers
- 1 roll = 2300 markers

Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EMP ...

Technical data

PC (polycarbonate)
V0
-40 ... 125
Halogen-free

Ordering data

Type	Order No.	Pcs./Pkt.
KMK HP (25X6)	0830720	100

Accessories

UCT-EMP (25X6)	1014117	10
EMT (25X6)R	0817264	1
TMP-UCT-MAG26	0803370	1





Lettering field size: 29 x 8 mm,
for cable diameter > 6 mm



Lettering field size: 60 x 15 mm,
for cable diameter > 9 mm



Lettering field size: 40 x 17 mm,
for cable diameter > 9 mm

Technical data		
PC (polycarbonate) V0 -40 ... 125 Halogen-free		
Ordering data		
Type	Order No.	Pcs./Pkt.
KMK HP (29X8)	0830721	100
Accessories		
UCT-EMP (29X8)	1014118	10
EMT (29X8)R	0817277	1
TMP-UCT-MAG26	0803370	1

Technical data		
PC (polycarbonate) V0 -40 ... 125 Halogen-free		
Ordering data		
Type	Order No.	Pcs./Pkt.
KMK HP (60X15)	0830722	50
Accessories		
UCT-EMP (60X15)	1014119	10
EMT (60X15)R	0801846	1
TMP-UCT-MAG26	0803370	1

Technical data		
PC (polycarbonate) V0 -40 ... 125 Halogen-free		
Ordering data		
Type	Order No.	Pcs./Pkt.
KMK HP (40X17)	0830723	50
Accessories		
UCT-EMP (40X17)	1014120	10
EMT (40X17)R	0817293	1
TMP-UCT-MAG26	0803370	1

Marking and labeling – MARKING system

Wire and cable marking

Plastic cable markers for insert labels, for assembly with cable ties



- KMK UV ... plastic cable markers mark and bundle conductors and cables outdoors
- The KMK UV... cable markers are transparent, impact resistant, and have excellent weathering resistance. At the same time, they also possess outstanding chemical resistance
- The KMK... versions have eyelets and are attached with cable ties
- The sealing cap protects the marked insert label from contamination
- Marking service: Phoenix Contact can custom-mark many insert labels for plastic cable markers according to your requirements
- The UCT sheets can also be used with the THERMOMARK CARD-UCT-MAG26 magazine in THERMOMARK CARD ...
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- **Designation example:**
UCT-EMP (25x6)
Lettering field width: 25 mm
Lettering field height: 6 mm
Type of packaging: roll



Notes:

For matching cable ties, see page 588 onwards or the product area on our website at phoenixcontact.net/products.

¹⁾ WT-UV HF...BK cable ties are weatherproof and UV resistant in accordance with ISO 4892 (after QUV-B 600 hours) for up to 10 years.



Lettering field size: 25 x 6 mm,
for cable diameter > 6 mm

General data

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	

Description

Cable marker carrier for cable tie assembly

transparent

UniCard, insert strip for KMK... cable marker carriers, can be marked with THERMOMARK CARD, BLUEMARK, and TOPMARK

1 sheet = 15 labels

1 sheet = 15 labels

1 sheet = 3 labels

1 sheet = 3 labels

UniSheet, insert labels, can be marked with THERMOMARK PRIME, THERMOMARK CARD, BLUEMARK ID, and BLUEMARK ID COLOR

1 UniSheet = 84 labels

1 UniSheet = 48 labels

1 UniSheet = 9 labels

1 UniSheet = 16 labels

Roll, insert labels, can be marked with THERMOMARK ROLL, THERMOMARK ROLLMASTER 300, THERMOMARK ROLLMASTER 600

1 roll = 5000 markers

1 roll = 5400 markers

1 roll = 2500 markers

1 roll = 2300 markers

Cable tie, halogen-free, flammability rating in accordance with UL 94: V2, maximum bundle Ø [mm] / min. tensile strength [N]¹⁾

35 / 130

50 / 220

79 / 220

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT-EMP ...

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Adapter plate for BLUEMARK ID, for accommodating US materials

Technical data

PA
HB
-40 ... 100
Halogen-free

Ordering data

Type	Order No.	Pcs./Pkt.
KMK UV (25X6)	1014106	100

Accessories

UCT-EMP (25X6)	1014117	10
US-EMP (25X6)-1	0802754	10
EMT (25X6)R	0817264	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
TMP-UCT-MAG26	0803370	1
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1



Lettering field size: 29 x 8 mm,
for cable diameter > 6 mm



Lettering field size: 60 x 15 mm,
for cable diameter > 9 mm

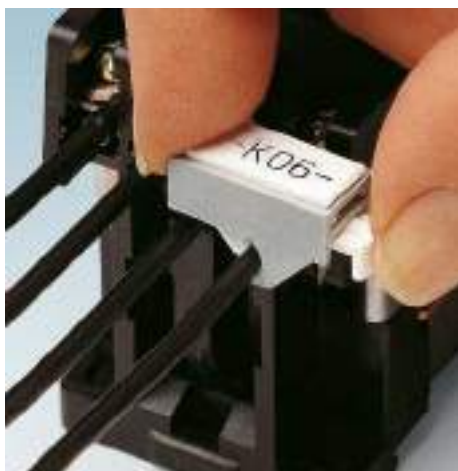


Lettering field size: 40 x 17 mm,
for cable diameter > 9 mm

Technical data		
PA HB -40 ... 100 Halogen-free		
Ordering data		
Type	Order No.	Pcs./Pkt.
KMK UV (29X8)	1014107	100
Accessories		
UCT-EMP (29X8)	1014118	10
US-EMP (29X8)	0829436	10
EMT (29X8)R	0817277	1
WT-UV HF 3,6X140 BK WT-UV HF 4,5X200 BK WT-UV HF 4,5X290 BK	3240832 3240834 3240835	100 100 100
TMP-UCT-MAG26	0803370	1
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

Technical data		
PA HB -40 ... 100 Halogen-free		
Ordering data		
Type	Order No.	Pcs./Pkt.
KMK UV (60X15)	1014108	50
Accessories		
UCT-EMP (60X15)	1014119	10
US-EMP (60X15)	0828781	10
EMT (60X15)R	0801846	1
WT-UV HF 3,6X140 BK WT-UV HF 4,5X200 BK WT-UV HF 4,5X290 BK	3240832 3240834 3240835	100 100 100
TMP-UCT-MAG26	0803370	1
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

Technical data		
PA HB -40 ... 100 Halogen-free		
Ordering data		
Type	Order No.	Pcs./Pkt.
KMK UV (40X17)	1014109	50
Accessories		
UCT-EMP (40X17)	1014120	10
US-EMP (40X17)	0829437	10
EMT (40X17)R	0817293	1
WT-UV HF 3,6X140 BK WT-UV HF 4,5X200 BK WT-UV HF 4,5X290 BK	3240832 3240834 3240835	100 100 100
TMP-UCT-MAG26	0803370	1
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1



- The GKM ... conductor markers enable large-area marking on conductors
- Flexible application, thanks to spring-loaded conductor attachment
- Particularly suitable for temporary marking
- The UCT sheets can also be used with the THERMOMARK CARD-UCT-MAG15 magazine in THERMOMARK CARD ...
- Quick and easy to use



Conductor diameter from 0 to 5.2 mm

General data

Material	
Temperature range	[°C]
Components	

Description	Color
Conductor marker, for conductor diameters of 0 - 5.2 mm	gray
for conductor diameters of 4.8 - 11 mm	gray

Contactor label zack marker strip, 5-section, can be marked with X-PEN, B-STIFT, plotter or label 20 x 8

Lettering field size: 20 x 8 mm	white
Lettering field size: 20 x 8 mm	yellow

UniCard, for marking devices from the following manufacturers: ABB, CONTA-CLIP, Escha, Festo, ifm-electronik, Harting, Moeller, Phoenix Contact, Siemens

Lettering field size: 20 x 9 mm	white
Lettering field size: 20 x 9 mm	yellow

UniCard, for marking devices from the following manufacturers: ABB, CONTA-CLIP, Escha, Festo, ifm-electronik, Lumberg, Moeller, Murr Elektronik, Pepperl & Fuchs, Phoenix Contact, Siemens, Turck, Weidmüller

Lettering field size: 20 x 9 mm	white
Lettering field size: 20 x 9 mm	yellow

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT-EM (20x9)

Technical data

PA/ABS
-40 ... 80
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
GKM 1 GY	1750498	100

Accessories

SS-ZB WH	5031171	50
SS-ZB YE	5031650	50
UC-EM (20X9)	0825503	10
UC-EM (20X9) YE	0827637	10
UCT-EM (20X9)	0801471	10
UCT-EM (20X9) YE	0801472	10
TMP-UCT-MAG15	0803357	1



Conductor diameter from 4.8 to 11 mm

Technical data

PA/ABS
-40 ... 80
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
GKM 2 GY	1750485	100

Accessories

SS-ZB WH	5031171	50
SS-ZB YE	5031650	50
UC-EM (20X9)	0825503	10
UC-EM (20X9) YE	0827637	10
UCT-EM (20X9)	0801471	10
UCT-EM (20X9) YE	0801472	10
TMP-UCT-MAG15	0803357	1

Type key for SD-WMTBS ...



Ordering example

For letters, numbers, and symbols, the products need to be configured.

Ordering the letter A in yellow =
0826611: A - SD-WMTBS (CH) YE

Example 0826514 SD-WMTBS (S) YE

0826514	SD-WMTBS	(S)	YE
Order No.	Product type	Printing	Color
0826637	SD-WMTBS (NEUTRAL) CC	(NEUTRAL) = unprinted	YE = yellow
0826514	SD-WMTBS (S) YE	(S) = printed with numbers 0 - 9	YE = yellow
0826611: letter	SD-WMTBS (CH) YE	(CH) = letters A - Z	YE = yellow
0826624: symbol	SD-WMTBS (SY) YE	(SY) = symbols + - / . GND	YE = yellow
0826527	SD-WMTBS (NU) CC	(NU) = printed with numbers 0 - 9	CC = international color code
0826556: numbers	SD-WMTBS (NU) VA	(NU) = printed with numbers 0 - 9	VA = stainless steel
0826640: letters	SD-WMTBS (CH) VA	(CH) = letters A - Z	VA = stainless steel
0826653: symbol	SD-WMTBS (SY) VA	(SY) = symbols + - / . GND	VA = stainless steel

International color code



Printing	Marker color	Font color
0	Black	White
1	Brown	White
2	Red	White
3	Orange	Black
4	Yellow	Black
5	Green	White
6	Blue	White
7	Violet	White
8	Gray	Black
9	White	Black

Cable marking for carrier assembly



- Cable markers for marking cables and conductors with larger cross sections
- The printed individual markers are pushed onto the corresponding holders

Notes:

1) For an ordering example, see page 244.

The marker carrier is secured with cable ties. For coordinating cable ties up to 4.8 mm width, see from page 614.



Individual markers with carrier
for cable diameter > 16 mm

General data

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

Polyvinyl chloride
V2
-30 ... 60
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Cable marker¹⁾				
unprinted	yellow	SD-WMTBS (NEUTRAL) CC	0826637	100
printed: with numbers 0-9	yellow	SD-WMTBS (S) YE	0826514	100
printed: with upper case letters A-Z	yellow	SD-WMTBS (CH) YE	0826611	100
printed: with symbols + - / . GND	yellow	SD-WMTBS (SY) YE	0826624	100
International color code, printed: with numbers 0-9	international color code	SD-WMTBS (NU) CC	0826527	100
Label holder, for cable ties up to 4.8 mm wide				
For max. 7 characters	black	SD-WMTB (70X10)	0826530	100
For max. 13 characters	black	SD-WMTB (100X10)	0826543	100

Wire and cable marking

Stainless steel cable marking for carrier assembly



- Cable markers for marking cables and conductors with larger cross sections
- The individual stainless steel markers are pushed onto the corresponding holders
- They are secured using stainless steel cable ties
- Easy assembly with UNIFOX-CT M7,9

Notes:
1) For ordering example, see page 244.
For further stainless steel cable ties, see page 620.



Stainless steel markers with carrier for assembly with cable ties

General data	
Material	
Description	Color
Cable markers , 5 strips, each with 10 markers ¹⁾	
unprinted	silver
printed: with numbers 0-9	silver
printed: with upper case letters A-Z	silver
printed: with symbols + - / . GND	silver
Label holder	
For max. 6 characters	silver
For max. 9 characters	silver
For max. 13 characters	silver
For max. 17 characters	silver
For max. 20 characters	silver
Cable tie , made of stainless steel (AISI 304), width: 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]	
30 / 890	silver
50 / 890	silver

Technical data		
Stainless steel		
Ordering data		
Type	Order No.	Pcs./Pkt.
SD-WMTBS (NEUTRAL) VA	0826666	50
SD-WMTBS (NU) VA	0826556	50
SD-WMTBS (CH) VA	0826640	50
SD-WMTBS (SY) VA	0826653	50
SD-WMTB (30X10) VA	0826569	50
SD-WMTB (47X10) VA	0826572	50
SD-WMTB (70X10) VA	0826585	50
SD-WMTB (92X10) VA	0826598	50
SD-WMTB (111X10) VA	0826608	50
Accessories		
WT-STEEL S 4,6X150	3240807	100
WT-STEEL S 4,6X201	3240808	100



Stainless steel cable marking for embossing or laser engraving



- The KMV ... steel cable markers are used in areas where cables and pipes are exposed to high temperatures and chemically aggressive atmospheres
- The markers can be engraved or imprinted with a letter and number punch
- They are secured using stainless steel cable ties
- Easy assembly with UNIFOX-CT M7,9

Notes:

For further stainless steel cable ties, see page 620.

PRINTED
FOR YOU



Stainless steel marker for assembly with cable ties

General data

Material

Technical data

Stainless steel 304

Ordering data

Description	Color
Steel cable markers , rustproof, non-magnetic, label size: 89 x 19 mm, lettering field size: 65 x 19 mm	silver
Steel cable markers , rustproof, non-magnetic, label size: 44 x 9.6 mm, lettering field size: 23 x 9 mm	silver

Type	Order No.	Pcs./Pkt.
KMV	0806644	100
KMV 44X9,6	0812007	100

Accessories

Cable tie, made of stainless steel (AISI 304), width: 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]

30 / 890

silver

WT-STEEL S 4,6X150	3240807	100



Marking and labeling – MARKING system

Wire and cable marking

Marking collars for insert labels



- These wire marking systems consist of marker carriers and insert labels
- The PATG ... collar is a captive marker carrier
- Marks conductors with a diameter of 0.6 ... 50 mm
- The corresponding UC-WMT ..., UCT-WMT ..., US-WMT ..., and EMT ... insert labels are used for marking



Closed marker carrier, for sliding on

General data		Technical data		
Material		PVC		
Flammability rating in accordance with UL 94		V0		
Temperature range		-50 ... 80		
Components		Silicone-free		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
Wire marker carrier, closed, 10 mm wide				
Conductor diameter: 0.6 - 1.2 mm	transparent	PATG 0/10	1013795	1000
Conductor diameter: 1.5 - 2.5 mm	transparent	PATG 1/10	1013805	1000
Conductor diameter: 2.0 - 4.0 mm	transparent	PATG 2/10	1013818	1000
Conductor diameter: 4.0 - 7.0 mm	transparent	PATG 3/10	1013821	500
Wire marker carrier, closed, 12 mm wide				
Conductor diameter: 0.6 - 1.2 mm	transparent	PATG 0/12	0827076	1000
Conductor diameter: 1.5 - 2.5 mm	transparent	PATG 1/12	0827077	1000
Conductor diameter: 2.0 - 4.0 mm	transparent	PATG 2/12	0827078	1000
Conductor diameter: 4.0 - 7.0 mm	transparent	PATG 3/12	0827079	500
Conductor diameter: 6.0 - 10.0 mm	transparent	PATG 4/12	0827080	500
	transparent	PATG 5/12	0803312	200
Wire marker carrier, closed, 15 mm wide				
Conductor diameter: 0.6 - 1.2 mm	transparent	PATG 0/15	1013740	1000
Conductor diameter: 1.5 - 2.5 mm	transparent	PATG 1/15	1013025	1000
Conductor diameter: 2.0 - 4.0 mm	transparent	PATG 2/15	1013038	1000
Conductor diameter: 4.0 - 7.0 mm	transparent	PATG 3/15	1013041	500
Conductor diameter: 6.0 - 10.0 mm	transparent	PATG 4/15	1013054	500
Conductor diameter: 10.0 - 14.0 mm	transparent	PATG 5/15	1013067	200
Conductor diameter: 14.0 - 22.0 mm	transparent	PATG 6/15	1013070	200
Conductor diameter: 22.0 - 30.0 mm	transparent	PATG 7/15	1013083	50
Conductor diameter: 30.0 - 35.0 mm	transparent	PATG 8/15	1013096	50
Conductor diameter: 35.0 - 45.0 mm	transparent	PATG 9/15	1013106	50
Wire marker carrier, closed, 18 mm wide				
Conductor diameter: 0.6 - 1.2 mm	transparent	PATG 0/18	0820507	1000
Conductor diameter: 1.5 - 2.5 mm	transparent	PATG 1/18	0820510	1000
Conductor diameter: 2.0 - 4.0 mm	transparent	PATG 2/18	0820523	1000
Conductor diameter: 4.0 - 7.0 mm	transparent	PATG 3/18	0820536	500
Conductor diameter: 6.0 - 10.0 mm	transparent	PATG 4/18	0820549	500
Conductor diameter: 10.0 - 14.0 mm	transparent	PATG 5/18	0820559	200
Conductor diameter: 14.0 - 22.0 mm	transparent	PATG 6/18	0828062	200
Wire marker carrier, closed, 23 mm wide				
Conductor diameter: 0.6 - 1.2 mm	transparent	PATG 0/23	0828046	1000
Conductor diameter: 1.5 - 2.5 mm	transparent	PATG 1/23	1013847	1000
Conductor diameter: 2.0 - 4.0 mm	transparent	PATG 2/23	1013850	500
Conductor diameter: 4.0 - 7.0 mm	transparent	PATG 3/23	1013863	500
Conductor diameter: 6.0 - 10.0 mm	transparent	PATG 4/23	0808011	200
Conductor diameter: 10.0 - 14.0 mm	transparent	PATG 5/23	0808024	200
Conductor diameter: 14.0 - 22.0 mm	transparent	PATG 6/23	0808037	100
Conductor diameter: 22.0 - 30.0 mm	transparent	PATG 7/23	0808040	50
Conductor diameter: 30.0 - 35.0 mm	transparent	PATG 8/23	0808053	50
Wire marker carrier, closed, 30 mm wide				
Conductor diameter: 1.5 - 2.5 mm	transparent	PATG 1/30	0822440	500
Conductor diameter: 2.0 - 4.0 mm	transparent	PATG 2/30	0822453	500
Conductor diameter: 4.0 - 7.0 mm	transparent	PATG 3/30	0822466	200
Conductor diameter: 6.0 - 10.0 mm	transparent	PATG 4/30	0822479	200
Conductor diameter: 10.0 - 14.0 mm	transparent	PATG 5/30	0822482	200



Marking collars for insert labels

- Can be marked using UC-WMT ..., US-WMT ..., and UCT-WMT ... plastic labels or EMT ... insert strips

PATO ...

- These marking collars are used for the subsequent marking of systems that have already been wired

PAB-KTL ...

- Marking collars for marking and bundling conductors



Open marker carrier, for clipping on



Marker carrier for assembly with cable ties

General data		Technical data			Technical data		
Material		PVC			PVC		
Flammability rating in accordance with UL 94		V0			V0		
Temperature range	[°C]	-50 ... 80			-50 ... 80		
Components		Silicone-free			Silicone-free		
Ordering data		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Wire marker carrier, open, 10 mm wide							
Conductor diameter: 2.0 - 3.5 mm	transparent	PATO 1/10	1013876	1000			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/10	1013889	1000			
Wire marker carrier, open, 12 mm wide							
Conductor diameter: 2.0 - 3.5 mm	transparent	PATO 1/12	0827081	1000			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/12	0827082	1000			
Wire marker carrier, open, 15 mm wide							
Conductor diameter: 2.0 - 3.5 mm	transparent	PATO 1/15	1013119	1000			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/15	1013122	1000			
Conductor diameter: 6.7 - 8.0 mm	transparent	PATO 3/15	1013135	500			
Conductor diameter: 6.7 - 10.0 mm	transparent	PATO 4/15	1013148	500			
Wire marker carrier, open, 18 mm wide							
Conductor diameter: 2.0 - 3.5 mm	transparent	PATO 1/18	0823740	500			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/18	0823753	500			
Wire marker carrier, open, 23 mm wide							
Conductor diameter: 2.0 - 3.5 mm	transparent	PATO 1/23	1013892	500			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/23	1013902	500			
Wire marker carrier, open, 30 mm wide							
Conductor diameter: 2.0 - 3.5 mm	transparent	PATO 1/30	0822495	500			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/30	0822505	500			
Cable marker carrier, lettering field along the length of cable, can be marked with UC-WMT and PABA..., lettering field size: 30 x 4 mm, fastened with PKB cable tie							
Lettering field size: 23 x 4 mm, marking with UC-WMT and PABA.../23	transparent				PAB-KTL	1013261	200
	transparent				PAB-KTL 23	1013957	200
Plastic cable markers for PKE insert label, can be marked with PKE insert label, lettering field size: 9 mm x 20 mm, with eyelets for fastening with PKB cable tie							
	transparent				PKT 9X20	0803977	240

Wire and cable marking

Halogen-free marking collars for insert labels



- These wire marking systems consist of marker carriers and insert labels
- The PATG HF ... collar is a captive marker carrier
- Marks conductors with a diameter of 1.3 mm ... 10 mm
- The corresponding UC-WMT ... and UCT-WMT ... insert labels are used for marking
- These wire marking systems are particularly suitable for use in the railway and automotive industry, traffic technology, and building technology, thanks to their outstanding material properties
- Comprehensive approvals, such as NF F 16-101/16-102, DIN EN 45545-2, and DIN 5510-2 ensure international use
- Strengthening ribs ensure central fixing of the conductor or cable

Notes:

High-quality fluid printing with the BLUEMARK is required when using the UC-WMT... insert labels.



Closed marker carrier, for sliding on

General data

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	

Technical data

TPU
-
-40 ... 85
Free from silicone, halogen, and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Wire marker carrier, closed, 10 mm wide				
Cable diameter: 1.3 - 2.8 mm	transparent/ black	PATG HF 1/10	1014044	1000
Cable diameter: 2.0 - 4.0 mm	transparent/ black	PATG HF 2/10	1014050	1000
Cable diameter: 4.0 - 7.0 mm	transparent/ black	PATG HF 3/10	1014056	500
Wire marker carrier, closed, 12 mm wide				
Cable diameter: 1.3 - 2.8 mm	transparent/ black	PATG HF 1/12	1014045	1000
Cable diameter: 2.0 - 4.0 mm	transparent/ black	PATG HF 2/12	1014051	1000
Cable diameter: 4.0 - 7.0 mm	transparent/ black	PATG HF 3/12	1014057	500
Cable diameter: 5.0 - 10.0 mm	transparent/ black	PATG HF 4/12	1014063	500
Wire marker carrier, closed, 15 mm wide				
Cable diameter: 1.3 - 2.8 mm	transparent/ black	PATG HF 1/15	1014046	1000
Cable diameter: 2.0 - 4.0 mm	transparent/ black	PATG HF 2/15	1014052	1000
Cable diameter: 4.0 - 7.0 mm	transparent/ black	PATG HF 3/15	1014058	500
Cable diameter: 5.0 - 10.0 mm	transparent/ black	PATG HF 4/15	1014064	500
Wire marker carrier, closed, 18 mm wide				
Cable diameter: 1.3 - 2.8 mm	transparent/ black	PATG HF 1/18	1014047	1000
Cable diameter: 2.0 - 4.0 mm	transparent/ black	PATG HF 2/18	1014053	1000
Cable diameter: 4.0 - 7.0 mm	transparent/ black	PATG HF 3/18	1014059	500
Cable diameter: 5.0 - 10.0 mm	transparent/ black	PATG HF 4/18	1014065	500
Wire marker carrier, closed, 23 mm wide				
Cable diameter: 1.3 - 2.8 mm	transparent/ black	PATG HF 1/23	1014048	1000
Cable diameter: 2.0 - 4.0 mm	transparent/ black	PATG HF 2/23	1014054	500
Cable diameter: 4.0 - 7.0 mm	transparent/ black	PATG HF 3/23	1014060	500
Cable diameter: 5.0 - 10.0 mm	transparent/ black	PATG HF 4/23	1014066	200
Wire marker carrier, closed, 30 mm wide				
Cable diameter: 1.3 - 2.8 mm	transparent/ black	PATG HF 1/30	1014049	500
Cable diameter: 2.0 - 4.0 mm	transparent/ black	PATG HF 2/30	1014055	500
Cable diameter: 4.0 - 7.0 mm	transparent/ black	PATG HF 3/30	1014061	200
Cable diameter: 5.0 - 10.0 mm	transparent/ black	PATG HF 4/30	1014067	200

Closed marker carrier

new



Closed marker carrier, for sliding on

General data		Technical data		
Material		TPU		
Flammability rating in accordance with UL 94		V0		
Temperature range		-40 ... 85		
Components		Free from silicone, halogen, and cadmium		
Description		Ordering data		
		Type	Order No.	Pcs./Pkt.
Wire marker carrier, transparent/black, unmarked, mounting type: slid on, cable diameter: 4 - 7 mm, lettering field size: 4 x 30 mm		PATG HF 3/30 VPE 1000	1044263	1000
Wire marker carrier, transparent/black, unmarked, mounting type: slid on, cable diameter: 5 - 10 mm, lettering field size: 4 x 30 mm		PATG HF 4/30 VPE 1000	1044271	1000



Equipment marking – MARKING system

Marking electrical and electronic control cabinet components does not just make maintenance work easier. In some industries it is actually a mandatory requirement. Moreover, equipment identification improves the quality of the control cabinets and systems.

Phoenix Contact offers a variety of different markers for equipment marking. From adhesive labels to high-quality engraving labels, the extensive marker range caters for every application.

A variety of printing systems is available for marking or engraving.

Product range overview

Equipment marking 254

Equipment marking overview

The right marking solution for every device

Phoenix Contact 256

Other manufacturers 262

LS-EM... stainless steel, aluminum, plastic, and laser foil equipment marking

Designed to be stuck on, screwed in or riveted or snapped into marker carriers 282

Aluminum EM... AL and stainless steel EM...-V4A equipment marking

Designed to be stuck on, screwed in or riveted or snapped into marker carriers 294

UniCard UC-EM... and UCT-EM... equipment marking

Designed to be stuck on, screwed in or riveted or snapped into marker carriers 298

Designed to be snapped in, for devices from Phoenix Contact and other manufacturers 306

UniSheet US-EM... equipment marking

Designed to be stuck on, screwed in or riveted or snapped into marker carriers, labels, and combi labels 314

EM... equipment marking, labels supplied in rolls

Labels for buttons, continuous and textile labels, labels for rough surfaces, for high-temperature and ESD applications, removable labels, labels with anti-tamper protection 324

Insert strips for devices from Phoenix Contact and other manufacturers 342

BMK... equipment marking, labels supplied as DIN A sheets 344

GPE... and EMLP... equipment marking, markers for printing or engraving 346

Marker carriers and profiles 348



Clear marking of electrical and electronic control cabinet components is essential for safe and efficient work. As with comprehensive technical documentation, marking all operating equipment increases the availability of the switchgear. This simplifies maintenance.

Last but not least, equipment identification improves the quality of the control cabinets and systems. Phoenix Contact offers a wide range of different marking materials; labels and signs made from plastic, aluminum, and stainless steel.

Depending on the design, the marking materials are adhered in place, snapped into existing carriers or secured by means of rivet or screw mounting. The combination of printing system and marking material ensures high quality with regard to the appearance, wipe and scratch resistance.

Depending on the application and material for individual marking, the following marking systems can be used.

- TOPMARK NEO, laser marker for marking UniCard formats as well as stainless steel and aluminum labels.
- BLUEMARK ID and BLUEMARK ID COLOR, high-speed printer with UV LED technology for marking UniSheet and UniCard formats as well as aluminum markers
- THERMOMARK CARD 2.0 and THERMOMARK PRIME, thermal transfer card printer for marking UniSheet and UniCard formats
- THERMOMARK ROLL 2.0, thermal transfer roll printer for marking material off the roll and continuous media
- THERMOMARK ROLLMASTER 300 and ROLLMASTER 600, industrial thermal transfer roll printer for large printing volumes of rolls and continuous media
- THERMOFOX, thermal transfer printer in handheld format, for marking labels in cassette format
- PLOTMARK, marking plotter for marking UniCard formats as well as materials in strip and sheet format
- ENGRAVING UNIT, engraving unit for the marking plotter, for marking 2-layer plastic materials in sheet format
- Standard desktop laser printer, for marking material in sheet format

The PROJECT complete software is available for the easy and efficient production of markings. The marking data generated can be imported from CAE systems, Excel or word processing programs using the data exchange manager included in PROJECT complete. In addition to automatic data transfer, there is also the option of manual input. The print files are then automatically forwarded to the corresponding marking systems and processed

If you do not have the option of creating markings yourself, you can turn to our marking service. We will be happy to handle your printing orders. This also includes engraving or laser marking of stainless steel cable markers.



Device markers are available in various sizes, materials, and colors. The self-adhesive labels have been designed for use in a wide temperature range.



Drilled labels are available for marking devices and control cabinets. These can be securely attached to the device using screws or rivets.



The CARRIER marking system is the perfect choice for marking buttons. The system consists of a carrier plus marking label and can be used in control cabinets as well as in the field.



High-temperature labels are ideal for marking PCBs. These labels can safely and permanently withstand temperatures of -40°C to 180°C ; or a temperature of 300°C for up to 60 seconds.



Tamper-proof labels are used as rating plates or seals. When detaching, a part of the metalized layer separates. The part leaves a pattern on the label and substrate.



GPE label sheets consist of a two-layer material that is ideal for engraving. However, the prefabricated self-adhesive labels can also be marked directly by hand or using a plotter.



In the case of small print volumes, labels are also printed using standard desktop laser printers. Copy sheets are provided with margins to make it easier to remove individual labels.



The self-adhesive markers are available in various shapes and sizes. They can be used to mark components, devices, and buttons and are highly resistant to chemical and mechanical effects.



Self-adhesive marker carriers are used in conjunction with marking labels to mark devices and modules. The carriers can be stuck onto all standard surfaces.

Marking and labeling – MARKING system

Equipment marking

Equipment marking for Phoenix Contact



UC-TMF 5 0818153	UC-TMF 8 0818137	UC-TMF 10 0818124	UC-TMF 16 0819262	UC-TM 5 0821302	UC1U-TM 5 0821302
UCT-TMF 5 0828744	UCT-TMF 8 0828748	UCT-TMF 10 0829204	UCT-TMF 16 0829218	UCT-TM 5 0828734	UCT1U-TM 5 0803204
					UM1U-TM (5x10) 0830910

Cross-reference list – Catalog 2 Sensor/actuator cabling and connectors

SAC-... P M12 SPEEDCON
valve connector adapters

M12 SPEEDCON

double valve adapters, design A

SACB with M8 slots

SACB with M12 slots

SACB with M5 slots

SACB-4/T ... M12 distributors for
power connectors

M8 distributor boxes with plug-in
trunk cable connection

M8 distributor boxes with
M12/M16 plug-in connection

M12 distributor boxes with plastic thread
and connector hood

M1 distributor boxes with metal thread
and screw connection

Shielded M12 distributor boxes

QUICKON distributor boxes with
0.14 - 0.34 mm² connection cross section

QUICKON distributor boxes with
0.34 - 0.75 mm² connection cross section

VS-CABLE ... data connectors

VS-SCRJ ..., VS-IL-2X ...
data connectors

Digital I/O devices with
M8 connection technology

Digital I/O devices with
M12 connection technology

Sensor/actuator cabling accessories

ASI CC DIST ... AS-Interface distributors

VS-SI ... data front plate

HC-M ... modular contact insert

HEAVYCON HC-B ... A
heavy-duty connectors

HEAVYCON HC-D ... A
heavy-duty connectors

Equipment marking for Phoenix Contact



UC-TM 6 0818085	UC1-TM 8 0821739		UC-EM (17,5x9) 0827490	UC-EM (20x7) 0825499	UC-EM (20x9) 0825503	UC-WMT (23x4) 0819411
UCT-TM 6 0828736		UCT-EM (7x10) 0830765	UCT-EM (17,5x9) 0801491	UCT-EM (20x7) 0801494	UCT-EM (20x9) 0801471	UCT-WMT (23x4) 0801453
	UM1-TM (8x10) 0830906					EMT (23x4)R 0817361

Cross-reference list – Catalog 2 Sensor/actuator cabling and connectors

SAC-... P M12 SPEEDCON
valve connector adapters

M12 SPEEDCON
double valve adapters, design A

SACB with M8 slots

SACB with M12 slots

SACB with M5 slots

SACB-4/T ... M12 distributors for
power connectors

M8 distributor boxes with plug-in
trunk cable connection

M8 distributor boxes with
M12/M16 plug-in connection

M12 distributor boxes with plastic thread
and connector hood

M1 distributor boxes with metal thread
and screw connection

Shielded M12 distributor boxes

QUICKON distributor boxes with
0.14 - 0.34 mm² connection cross section

QUICKON distributor boxes with
0.34 - 0.75 mm² connection cross section

VS-CABLE ... data connectors

VS-SCRJ ..., VS-IL-2X ...
data connectors

Digital I/O devices with
M8 connection technology

Digital I/O devices with
M12 connection technology

Sensor/actuator cabling accessories

ASI CC DIST ... AS-Interface distributors

VS-SI ... data front plate

HC-M ... modular contact insert

HEAVYCON HC-B ... A
heavy-duty connectors

HEAVYCON HC-D ... A
heavy-duty connectors

Equipment marking

Equipment marking for Phoenix Contact



UC-TMF 5 0818153	UC-TMF 12 0818233	UC-TMF 16 0819262	UC-TM 6 0818085
UCT-TMF 5 0828744	UCT-TMF 12 0829214	UCT-TMF 16 0829218	UCT-TM 6 0828736

Cross-reference list Catalog 4 Surge protection, device circuit breakers, and power supplies

FLASHTRAB compact lightning current arrester				
FLASHTRAB compact PLUS lightning current arrester				
FLASHTRAB lightning current arrester				
FLASHTRAB SEC lightning current arrester				
VALVETRAB compact surge protective device				
VALVETRAB MS surge protective device				
VALVETRAB-SEC surge protective device				
MAINS-PLUGTRAB device protection				
PLUGTRAB SEC device protection				
PLUGTRAB with PT-IQ function monitoring				
PLUGTRAB MCR				
LINETRAB				
Terminal blocks with TT surge protection				
CB TM ... pluggable thermomagnetic circuit breaker				

Marking and labeling – MARKING system

Equipment marking

Equipment marking for Phoenix Contact



UC-TMF 6 0818140	UC-TMF 8 0818137	UC-TMF 12 0819233	UC-TMF 16 0819262	UC-TM 6 0818085	
UCT-TMF 6 0828746	UCT-TMF 8 0828748	UCT-TMF 12 0829214	UCT-TMF 16 0829218	UCT-TM 6 0828736	UCT-EM (7x10) 0830765

Cross-reference list Catalog 6 Automation

Safety relay modules					
Inline					
INTERBUS ST ...					
Fieldline ... M8					
Fieldline ... M12					
Axioline F series					
Axioline E series					



UC-TMF 6 0818140	UC-TMF 12 0819233	UC-TMF 16 0819262	UC-TM 6 0818085		UC-EM (17,5x9) 0828490
UCT-TMF 6 0828746	UCT-TMF 12 0829214	UCT-TMF 16 0829218	UCT-TM 6 0828736	UCT-EM (30x5) 0801505	UCT-EM (17,5x9) 0801491

Cross-reference list Catalog 5 Interface technology and switching devices

ELR-H ... hybrid motor starters					
ELR-W ... solid-state contactors					
MINI Analog signal conditioners					
MINI Analog Pro signal conditioners					
MACX Analog signal conditioners					
Interface relay PLC feed-in terminal					
Interface relay PLC-B ..., PLC-O ..., PLC-R ...					
DEK-REL ... relay terminal block					
DEK-OE ... special relay					
DEK-TR ... inverter module					
COMPACT-LINE UM 45 ...					
PROCESS Interface PI-EX ...					
RIFLINE complete					

Equipment marking for Phoenix Contact



UC-EM (20x9) 0825503							
UCT-EM (20x9) 0801471	US-EML (20x8) 0800458						
	EML (20x8)R 0816786	EMT (35x18,7)R 0801831	EMT (35x28)R 0801602	EMT (35x46)R 0801604	EMT (62x10)R 0800057	EMT (62x46)R 0800059	

Cross-reference list Catalog 6 Automation

Safety relay modules							
Inline							
INTERBUS ST ...							
Fieldline ... M8							
Fieldline ... M12							
Axioline F series							
Axioline E series							



UC-EM (20x9) 0825503	UC-EMLP (11x9) 0819291	UC-EMLP (15x5) 0819301
UCT-EM (20x9) 0801471		
	US-EMLP (11 x 9) 0828789	US-EMLP (15x5) 0828790

Cross-reference list Catalog 5 Interface technology and switching devices

ELR-H ... hybrid motor starters			
ELR-W ... solid-state contactors			
MINI Analog signal conditioners			
MINI Analog Pro signal conditioners			
MACX Analog signal conditioners			
Interface relay PLC feed-in terminal			
Interface relay PLC-B ..., PLC-O ..., PLC-R ...			
DEK-REL ... relay terminal block			
DEK-OE ... special relay			
DEK-TR ... inverter module			
COMPACT-LINE UM 45 ...			
PROCESS Interface PI-EX ...			
RIFLINE complete			

Marking and labeling – MARKING system

Equipment marking

Equipment marking for other manufacturers

	UC-EM (17,5x7,5) 0825495		UC-EM (17,5x8) 0823766	UC-EM (17,5x9) 0827490	UC-EMLP (20x8) 0819327	UC-EM (20x9) 0825503	UC-EM (21x8) 0825507
	UCT-EM (17,5x7,5) 0801482	UCT-EM (17x8) 0801842	UCT-EM (17,5x8) 0801496	UCT-EM (17x9) 0801475		UCT-EM (20x9) 0801477	UCT-EM (21x8) 0801489
					US-EMLP (20x9) 0828795		
Cross-reference list – ABB Automation							
Miniature circuit breaker S 221... S 223... S 281... S 284							
Residual-current device F 271... F 172...							
Switch, button, indicator light E 221..., E 222..., E 223..., E 225..., E 226..., E 227...							
Power dimmer STD...							
Power supply unit NTL5...							
Power consumption meter RS 232...							
Installation contactors ESB... EN...							
Miniature circuit breakers LE1... LE3... LP 1-3... LPUC 1/2, LP1NA... LP3NA...							
Residual-current devices F... FIP... FIK... FI-LP... FIS...							
FI signal generators FISG...							
Load switches IS...							
Surge protective devices SA 4...							
Logic modules							
Logic and extension module LM... DO... DX...							
Miniature circuit breaker							
Switch contacts A9, A12, A16, A26, A30, A40, A50, A63, A75, A95, A110, A145, A185, A210, A260, A300, AF 400, AF460, AF580, AF750							
Mini contacts B6, B7							
SZ-KZS							
A9-30-10							

Equipment marking for other manufacturers

UCT-EM (17x10) 0801483	UCT-EM (12x8) 1058146

Cross-reference list – Allen Bradley Automation

100-C09Z*10, 100-F A22, 100-F- A40	
140M x motor starters	
700-HK Slim Line relays	

UC-TMF 12 0819233	UC-EM (10x8) 0825491
UCT-TMF 12 0829214	UCT-EM (10x8) 0801485

Cross-reference list – Bosch/Automation

Bosch/distributor	
RF-FLS PB 12MI DIO 4/4 M12-2A	
RF-FLS PB M12 DI 8M12	
RF-FLS PB M12 DIO 8/8 M12	
RF-FLS PB M12 DO M12-2A	

Marking and labeling – MARKING system

Equipment marking

Equipment marking for other manufacturers

UC1-TMF 5 0821425		
UCT1-TMF 5 0829237	UCT-EM (10x5) 0801498	UCT-EM (12x7) 0801501
UM1-TMF (5x5) 0830902		

Cross-reference list – Beckhoff Automation

BC 2000, BC 3100, BC 4000, BC 9000, BC 9050			
BK 3010, BK 3110			
Bus terminals KL ...			
EtherCAT-Box EP ...			
EtherCAT-Box EQ ...			
Ether CAT-Box ER ...			
EtherCAT terminal blocks EL ...			
EtherCAT terminal blocks ES ...			
Fieldbus Box IE			
Fieldbus Box IL			
Fieldbus Box IP			
SAI distributor (sensor/actuator interface)			

UCT-EM (12x3.3) 0801502	UCT-EM (12x6) 0801503

Cross-reference list – Bernecke + Rainer

X20 system		

Equipment marking for other manufacturers

UC1-TM 6 0821247		UC-EM (20x9) 0825503
UCT1-TM 6 0829483	UCT-EM (6x10) 0801493	UCT-EM (20x9) 0801471
UM1-TM (6x10) 0830903		

Cross-reference list – CONTA-CLIP Electronics

Interface relay ... IRCIU			
Interface relay ... IRCPU			
Interface relay IRCOU			
Interface relay IRCU			
Interface relay MFR ... IRCPU			
PGSV, PSP			
Plug relay terminal block screw/ spring-cage technology ... PRCU			
Plug relay screw technology PRCU			
Plug relay spring-cage technology ZPRCU			
Plug solid-state-compact ... PSCU			
Relay terminal block screw technology MFR PRCU			
Time relay terminal block MFR PSCU			

	UC-EM (20x7) 0825499		UC-EM (20x9) 0825503
UCT-EM (10x5) 0801470	UCT-EM (20x7) 0801494	UCT-EM (20x8) 0801477	UCT-EM (20x9) 0801471

Cross-reference list – Escha

I/O distributor M8x1				
I/O distributor M12x1				
Valve connector, A design				
Distribution block FK/FKS				

Equipment marking

Equipment marking for other manufacturers

		UC-EM (17,5x9) 0827490		UC-EM (20x9) 0825503	
	UCT-EM (6x10) 0801493	UCT-EM (17x9) 0801475	UCT-EM (17x10) 0801483	UCT-EM (20x9) 0801471	UCT-EMNP (12,5x6) 1025150
Cross-reference list – Festo Automation					
Compact performance					
CPA10 / EV1					
CP-E16 valve terminal					
CP-E16-KL-CL					
CPV18-V1					
CPX-AP-I					
CP-E16-M electronics					
IBS 6x10					
IBS 9/17					
IBS 9/20					
IBS 10/17					
MPV-E/A08-M8					
MPV-E/A08-M12					
MPV-E/A12-M8					
CPV pneumatics					

Equipment marking for other manufacturers

	UC-EM (10x8) 0825491	UC-EMLP (20x8) 0819327		UC-EM (20x9) 0825503
UCT-EM (10x5) 0801470	UCT-EM (10x8) 0801485			UCT-EM (20x9) 0801471
		US-EMLP (20x9) 0828795	US-EMP (20x9) 0829439	

Cross-reference list – Pepperl + Fuchs

ASI VAA-2E-64SN (VAA pneumatic module)					
AS-i bus module					
G6 compact modules					
IPG-64-B7					
K series (module marking carriers)					
Power repeater					
VAS-2A-K 12U					
WA-4E-62-ZE					

Marking and labeling – MARKING system

Equipment marking

Equipment marking for other manufacturers

	UCT-EM (6x10) 0801493	UCT-EM (10x8) 0801485	UCT-EM (17x9) 0801475	UCT-EM (12x8) 1058146
Cross-reference list – Finder				
Series 22 installation relays				
Series 46 industrial relays				
Series 19.21 intervention modules				
Series 38.21/38.51/38.61/38.81/ 38.91 coupling relays				
Series 20 impulse switches				
Series 70.61 monitoring relays				
Variclip (relay retaining bracket)				
Variclip 020.24				
Series 80.82 time relays				

	UC-TM 5 0818108	UC3-TM 5 0822369	UC-TM 6 0818085	UC3-TM 6 0822385	UC-EM (20x7) 0825499	UC-EM (20x9) 0825503
	UCT-TM 5 0828734	UCT3-TM 5 0829251	UCT-TM 6 0828736	UCT3-TM 6 0829252	UCT-EM (20x7) 0801494	UCT-EM (20x9) 0801471
		UM3-TM (5x8) 0830917		UM3-TM (6x8) 0830915		
Cross-reference list – Harting						
Han D AV connection distributor						
Han D AV multiplier						
Han E AV connection distributor						
Han ES AV connection distributor						
Han-Port data connector						
Han-Port mounting frame						
Han-Port protective contact sockets						
Han-Snap contact insert holder						
Han-Snap contact insert holder with carrier element						
Han-Snap coupling						
Han-Snap shell housing						

Equipment marking for other manufacturers

UC-EM (10x8) 0825491		UC-EM (17,5x8) 0823766	UC-EM (20x9) 0825503	UC-EM (21x8) 0825507	UC-EMLP (20x8) 0819327	UC-WMT (23x4) 0819411
UCT-EM (10x8) 0801485	UCT-EM (17x8) 0801842	UCT-EM (17,5x8) 0801496	UCT-EM (20x9) 0801471	UCT-EM (21x8) 0801489		UCT-WMT (23x4) 0801453
					US-EMLP (20x9) 0828795	US-WMT (23x4) 0828769

Cross-reference list – ifm-electronik

AC 2480 active AS-i module						
AC 20 ... Classic module/ Universal M						
AC 225 Smart line						
AC 24 80/81 Compact line						
AC 50 ... module bases						
AC 52 ... Classic line distributor module						
AC 5210 As-i module						
AS-i modules						
AV 52 ... Classic line						
I/O modules						
M12/M8 connecting cables						
Central distributors						

UC-EM (10x8) 0825491	UC-EM (17,5x7,5) 0825495	UC-EM (20x9) 0825503
UCT-EM (10x8) 0801485	UCT-EM (17,5x7,5) 0801482	UCT-EM (20x9) 0801471

Cross-reference list – Lumberg Automation

ASB distributor M12 passive		
ASB distributor M8		
AS-Interface 0911 ...		
Compact bus modules active		
Valve connectors		

Equipment marking for other manufacturers

UC-EM (17,5x8) 0825495	UC-EM (20x9) 0825503
UCT-EM (17,5x8) 0801496	UCT-EM (20x9) 0801471

Cross-reference list – Moeller / Eaton

Function relay DILET 11 ..., DILET 70 ..., EMR 4 ...		
Basic device and extension module EASY 2 ..., EASY 5 ..., EASY 6 ..., EASY 7 ..., EASY 200 ...		
Relay ZE ..., ZEV ...		
Contactor DILER ..., DILEM ...		

Equipment marking for other manufacturers

	UC3-TM 5 0822369		UC-EM (20x7) 0825499		UC-EM (20x9) 0825503
UCT-EM (5x10) 0801497	UCT3-TM 5 0829251	UCT-EM (17x9) 0801475	UCT-EM (20x7) 0801494	UCT-EM (20x8) 0801477	UCT-EM (20x9) 0801471
	UM3-TM (5x8) 0830917				

Cross-reference list – Murr Elektronik

AS-Interface system MASI 00/20						
AS-Interface system MASI 67						
AS-Interface system MASI 68						
CUBE 67						
Modlink data insert connector link						
Diode components						
MKS diode components						
EMC interference suppression modules DIL E						
EMC interference suppression modules M						
EMC interference suppression module S2 ... S6						
EMC interference suppression modules SO ...						
Front plate interfaces						
MICO FUSE intelligent power distribution						
IMPACT 20 compact I/O modules						
IMPACT 67 compact I/O modules						
MKV Metall compact I/O modules						
Assembly modules						
MKS assembly modules						
AMMS / AMMSD optocoupler						
MIRON optocoupler						
Passive interface technology						
Potentiometer blocks						
MB redundancy module						
Evolution power supply unit						
Picco power supply unit						
MIRO safety relay						
MICO overcurrent protective device						
MICO BASIC overcurrent protective device						
Valve connectors						
Plastic M12 distributor systems						
MSDS 8 plastic M12 distributor systems						
M12 metal distributor systems						
M8 distributor systems						

Marking and labeling – MARKING system

Equipment marking

Equipment marking for other manufacturers

	UC-EM (18x8) 0825497	UC-EM (21x8) 0825507
UCT-EM (17x8) 0801842	UCT-EM (18x8) 0801488	UCT-EM (21x8) 0801489

Cross-reference list – Schneider Electric

Special contactors GC 1610, GC 1611, GC 1620, GC 2502, GC 2510, GC 2511, GC 2520			
Preselection contactors GY 1611, GY 1620, GY 2511, GY 2520			
TeSys D series, D control relays, K control relays			
TeSys model U			
Standard contactors GC 1622, GC 1630, GC 1640, GC 2504, GC 2522, GC 2530, GC 2540			
Standard contactors 4002, 4004, 4011, 4020, 4022, 4030, 4040, 6302, 6304, 6311, 6320, 6322, 6330, 6340, 10020, 10040			
Preselection contactors GY 1640, GY 2530, GY 2540, GY 4020, GY 4030, GY 4040, GY 6320, GY 6330, GY 6340			
TeSys LD1 ... motor adjustment combination			
LD 4 ... motor adjustment combination HL contactors			
LD5 ... motor output/reversing combination			

Equipment marking for other manufacturers

		UC-EM (20x9) 0825503
	UCT-EM (10x5) 0801470	UCT-EM (20x9) 0801471
EML (10x4) 0815583		

Cross-reference list – Turck

BL 67 modular I/O system in IP67			
Compact fieldbus I/O modules in IP67 for DeviceNet™			
Compact fieldbus I/O modules in IP67 and IP20			
Compact multi-protocol I/O modules in IP67 for Ethernet			
Piconet extension modules			
Piconet compact I/O system in IP67			
Piconet coupling modules			
Piconet stand-alone modules for PROFIBUS DP			

Marking and labeling – MARKING system

Equipment marking

Equipment marking for other manufacturers

UC-EM (10x7) 0825487	UC-EM (10x8) 0825491		UC-EM (20x7) 0825499	UC-EM (20x9) 0825503		
UCT-EM (10x7) 0801498	UCT-EM (10x8) 0801485	UCT-EM (15x10) 0801504	UCT-EM (20x7) 0801494	UCT-EM (20x9) 0801471		
					US-EMT (13x109) 0803862	
					EMT (13x109)R 0803894	EMT (50x18,8)R 1003224

Cross-reference list – Siemens

K20... AS-i compact module

AS-i repeater, 4-way distributor,
round cable distributor

K45.../K60... AS-i safe module

K45.../K60... AS-i slaves I/O module

S22.5.../S45... AS-i slaves SlimLine

AS-i slaves surge protection module

AS-i slaves counter module, ground fault
detection module

ET 200X bus module, contact block,
3SB3 button, Signum button series,
3SB14... switching element

CPU 1500 series

EMC interference suppression module

8WA1 808 end block

ET 200 S

ET 200 SP

ET 200 SP HA

Solid-state relay, solid-state contactor,
function module

3RH 1921... auxiliary switch blocks

Circuit breaker, el. overload relay,
therm. overload relay

K45/K60 mounting plate

Motor management and control devices,
time relays, monitoring relays, safety relays

Motor circuit breakers

S7-1500

S7-300

S7-400

Soft starter, direct starter

Contactor, auxiliary contactor, contactor
combination, auxiliary switch block

Equipment marking for other manufacturers

US-EMT (50/28x13) 0803853	US-EMT (50x26) 0803851		US-EMT (23x109) 0803858	US-EMT (31x12,5) 0803848	US-EMT (103x17) 0803846	US-EMT (103x23) 0803856
EMT (50/28x13)R 0800049	EMT (50x26)R 0800052	EMT (Ex14)R 0803461	EMT (23x109)R 0803457	EMT (31x12,5)R 0801612	EMT (103x17)R 0800039	EMT (103x23)R 0800040

Cross-reference list – Siemens

K20... AS-i compact module

AS-i repeater, 4-way distributor,
round cable distributor

K45.../K60... AS-i safe module

K45.../K60... AS-i slaves I/O module

S22.5.../S45... AS-i slaves SlimLine

AS-i slaves surge protection module

AS-i slaves counter module, ground fault
detection moduleET 200X bus module, contact block,
3SB3 button, Signum button series,
3SB14... switching element

CPU 1500 series

EMC interference suppression module

8WA1 808 end block

ET 200 S

ET 200 SP

Solid-state relay, solid-state contactor,
function module

3RH 1921... auxiliary switch blocks

Circuit breaker, el. overload relay,
therm. overload relay

K45/K60 mounting plate

Motor management and control devices,
time relays, monitoring relays, safety relays

Motor circuit breakers

S7-1500

S7-300

S7-400

Soft starter, direct starter

Contactor, auxiliary contactor, contactor
combination, auxiliary switch block

Marking and labeling – MARKING system

Equipment marking

Equipment marking for other manufacturers

UC1-TMF 5 0821425	UC2-TM 5 0821690	
UCT1-TMF 5 0829237	UCT2-TM 5/6 0829249	UCT-EM (17x9) 0801475
UM1-TMF (5x5) 0830911	UM2-TM (5/6x10) 0830911	

Cross-reference list – Wago

Beckhoff Wago 12/7			
Bus module Wago 12/7			
D 4/6			
M 16/12			
M 4/6			
Series 750, 753, analog output terminal			
Series 750, 753, analog input terminal			
Series 750, 753, digital output terminal			
Series 750, 753, digital pulse interface			
Series 750, 753, digital input terminals			
Series 750, 753, I/O system			
Series 750, 753, relay output terminal			
Series 750, 753, serial interface			
Series 750, 753, Forward counter/reverse counter			
Series 750, DC drive controller			
Series 750, fieldbus coupler			
Series 750, incremental encoder interface			
Series 750, power-level terminal			
Series 750, proportional valve module			
Series 750, PTC terminal block			
Series 750, pulse width output counter			
Series 750, RTC module			
Series 750, PLC controller			
Series 750, SSI encoder interface			
Series 750, stepper controller			
Series 750, stepper servo			
Series 750, TTY interface			
Miniature circuit breaker			

Equipment marking for other manufacturers

UC1-TMF 5 0821425	UC1-TM 5 0821784	UC1-TMF 6 0821483	UC1-TM 6 0821739	UC1-TM 6 0821739	UC1-TM 8 0821739	UC-EM (20x9) 0825503
UCT1-TMF 5 0829237	UCT1-TM 5 0829482	UCT1-TMF 6 0829243	UCT1-TM 6 0829483	UCT1-TM 6 0829483		UCT-EM (20x9) 0801471
UM1-TMF (5x5) 0830911	UM1-TM (5x10) 0830905	UM1-TMF (6x5) 0830904	UM1-TM (6x10) 0830903	UM1-TM (6x12) 0830909	UM1-TM (8x10) 0830906	

Cross-reference list – Weidmüller

IP20 analog output modules							
IP20 analog input modules							
IP20 digital output modules							
IP20 digital input modules							
IP20 digital counters and communication modules							
IP20 feed-in modules							
M12 IDC							
M12 power distributor							
M12 push-pull							
M12 distributor							
M12 distributor, slim design							
M5 distributor							
M8 distributor							
MCZ-OVP-SERIES							
MCZ-SERIES solid-state relay							
MCZ-SERIES relay coupler							
MICROOPTO solid-state relay							
PROFIBUS IP20 fieldbus coupler							
IP20 modules, pulse width modulation							
SAI distributor M12 with M23							
Safe I/O modules and IP20 feed-in modules							
IP20 temperature modules							
TERMOPTO solid-state relay							
TERMSERIES solid-state relay							
TERMSERIES relay coupler							
VARITECOR SPC base element							
VARITECOR SSC ...							
Valve lines							
WAVESERIES measurement isolator							
WAVESERIES measuring transducer							
WAVESERIES measuring transducer							
WAVESERIES signal converter							
WAVESERIES path isolator							

Marking and labeling – MARKING system

Equipment marking

Markings for marker carriers from other manufacturers

	UC-EMP (17x15) 0825421	UC-EMLP (22x22) 0825463	UC-EMP (27x8) 0825427	UC-EMP (27x12,5) 0825433	UC-EMP (27x15) 0825439	UC-EMP (27x18) 0825445
	US-EMP (17x15) 0828774		US-EMP (27x8) 0828775	US-EMP (27x12,5) 0828776	US-EMP (27x15) 0828777	US-EMP (27x18) 0828778
Cross-reference list – CONTA-CLIP						
GST-H 27x8 BK						
GST-H 27x12,5 BK						
GST-H 27x18 BK						
GST-H 27x27 BK						
GSU-H 17x15 BK						
GSU-H 27x15 BK						
GSU-H 49x15 BK						
GSU-H 60x15 BK						
GSU-H 60x30 BK						
GSU-H 85,4x54 BK						
Cross-reference list – ABB						
MA6-1060						
BSH-A						
BSH-B						
Cross-reference list – Grafoplast						
SIT 0A06 ...						
SIT 0A07 ...						
SIT 0B05 ...						
SIT 0B07 ...						
SIT 0B08 ...						
SIT 0B09 ...						
Cross-reference list – Moeller						
M22S-ST-X						
Cross-reference list – Murrplastik						
BT 15/27, BTK 15/27						
BT 15/49, BTK 15/49						
BT 22,5						
BTK 22,5						
BT-SR 15x27						
BT-SR 15x49						
BT-SR 27x12,5						
BT-SR 27x18						
BT-SR 27x27						

Markings for marker carriers from other manufacturers

	UC-EMP (27x27) 0825451	UC-EMP (49x15) 0825457	UC-EMP (60x15) 0822259	UC-EMP (60x30) 0822275	
			UCT- EMP(60x15) 1014119		
	US-EMP (27x27) 0828779	US-EMP (49x15) 0828780	US-EMP (60x15) 0828781	US-EMP (60x30) 0828782	US-EMP (85,6x54) 0828783
Cross-reference list – CONTA-CLIP					
GST-H 27x8 BK					
GST-H 27x12,5 BK					
GST-H 27x18 BK					
GST-H 27x27 BK					
GSU-H 17x15 BK					
GSU-H 27x15 BK					
GSU-H 49x15 BK					
GSU-H 60x15 BK					
GSU-H 60x30 BK					
GSU-H 85,4x54 BK					
Cross-reference list – ABB					
MA6-1060					
BSH-A					
BSH-B					
Cross-reference list – Grafoplast					
SIT 0A06 ...					
SIT 0A07 ...					
SIT 0B05 ...					
SIT 0B07 ...					
SIT 0B08 ...					
SIT 0B09 ...					
Cross-reference list – Moeller					
M22S-ST-X					
Cross-reference list – Murrplastik					
BT 15/27, BTK 15/27					
BT 15/49, BTK 15/49					
BT 22,5					
BTK 22,5					
BT-SR 15x27					
BT-SR 15x49					
BT-SR 27x12,5					
BT-SR 27x18					
BT-SR 27x27					

Marking and labeling – MARKING system

Equipment marking

Markings for marker carriers from other manufacturers

	UC-EMP (17x15) 0825421	UC-EMLP (22x22) 0825463	UC-EMP (27x8) 0825427	UC-EMP (27x12,5) 0825433	UC-EMP (27x15) 0825439	UC-EMP (27x18) 0825445
	US-EMP (17x15) 0828774	US-EMLP (22x22) 0828783	US-EMP (27x8) 0828775	US-EMP (27x12,5) 0828776	US-EMP (27x15) 0828777	US-EMP (27x18) 0828778
Cross-reference list – Siemens						
3SB3922-0AY						
3SB3925-0AV						
3SB1906-2AA						
3SB1906-2AW						
3SB38 empty enclosure						

Cross-reference list – Weidmüller						
SM-H 27/12.5 SW						
SM-H 27/18 SW						
SM-H 27/27 SW						
CC-H 15/17						
CC-H 15/27						
CC-H 15/49						
CC-H 15/60						
CC-H 30/6						
LOGIMARK						

	UCT4-EMP (27x12,5) 1073985	UCT4-EMP (27x17,5) 1073987	UCT4-EMP (27x27) 1073990	UCT4-EMLP (27x12,5) 1056543	UCT4-EMLP (27x17,5) 1056547	UCT4-EMLP (27x27) 1056549
Cross-reference list – Siemens SIRIUS ACT						
3SU1900-0AG						
3SU1900-0AH						
3SU1900-0AJ						
3SU1900-0AR						
3SU1900-0AS						
3SU1900-0AT						
3SU1900-0AN						
3SU1900-0AP						
3SU1900-0AQ						
3SU1900-0AL						
3SU1900-0AM						
3SU1900-0AK						

	UC-EMLP (22x22) 0825463
Cross-reference list – Siemens SIRIUS ACT	
3SU18 ...-0AA00-0AB ...	

Markings for marker carriers from other manufacturers

	UC-EMP (27x27) 0825451	UC-EMP (49x15) 0825457	UC-EMP (60x15) 0822259	UC-EMP (60x30) 0822275	
			UCT-EMP (60x15) 1014119		
	US-EMP (27x27) 0828779	US-EMP (49x15) 0828780	US-EMP (60x15) 0828781	US-EMP (60x30) 0828782	US-EMP (85,6x54) 0828783
Cross-reference list – Siemens					
3SB3922-0AY					
3SB3925-0AV					
3SB1906-2AA					
3SB1906-2AV					
3SB38 empty enclosure					
Cross-reference list – Weidmüller					
SM-H 27/12.5 SW					
SM-H 27/18 SW					
SM-H 27/27 SW					
CC-H 15/17					
CC-H 15/27					
CC-H 15/49					
CC-H 15/60					
CC-H 30/6					
LOGIMARK					

Marking and labeling – MARKING system

Equipment marking

Equipment marking, stainless steel and aluminum, for screwing or riveting



Can be marked using:



Direct laser marking

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Stainless steel, material thickness:
0.5 mm²⁾

- The LS-EMSP ... product range is available in stainless steel (V4A) or aluminum. LS-EMSP ... provides markers for quick and easy fixing with screws or rivets
- The LS-EMSP-V4A ... product range is characterized in particular by its high resistance to salt water, chloride, and solvents. This makes it suitable for the most demanding industrial requirements.
- The LS-EMSP-V4A ... product group can be permanently marked in two ways: by engraving or annealing
- By selecting the material in the PROJECT complete planning and configuration software, the correct laser parameters are automatically transferred to TOPMARK ...
- Marking service: Phoenix Contact can custom-mark many markers according to your requirements
- **Designation example:**
LS-EMSP-V4A (39x15)
Lettering field width: 39 mm
Lettering field height: 15 mm
Type of packaging: sheet

General data

Can be marked with
Material
Wipe resistance
Components

Description

Marking label, with mounting holes 3.2 mm in diameter

1 sheet = 24 labels
1 sheet = 16 labels
1 sheet = 10 labels
1 sheet = 6 labels
1 sheet = 2 labels
1 sheet = 2 labels
1 sheet = 1 label
1 sheet = 2 labels
1 sheet = 1 label
1 sheet = 1 label

Marking label, with mounting holes 3.2 mm in diameter

1 sheet = 10 labels, red
1 sheet = 10 labels, orange
1 sheet = 10 labels, blue
1 sheet = 10 labels, green
1 sheet = 6 labels, red
1 sheet = 6 labels, orange
1 sheet = 6 labels, blue
1 sheet = 6 labels, green

Adapter plate, for LS materials, for TOPMARK NEO

Sheet hopper, for TOPMARK LASER

Technical data

TOPMARK NEO • TOPMARK LASER
V4A
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs./Pkt.
LS-EMSP-V4A (39X15)	0831653	5
LS-EMSP-V4A (50X15)	0831654	5
LS-EMSP-V4A (50X30)	0831655	5
LS-EMSP-V4A (75,6X54)	0831656	5
LS-EMSP-V4A (90X60)	0831657	5
LS-EMSP-V4A (140X100) 1	1030550	5

Accessories

TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Notes:

For matching rivets for securing the LS-EMSP-V4A ... and LS-EMSP-AL ..., see the product area on our website at phoenixcontact.net/products.

Drilling diagrams can be found at phoenixcontact.net/products

¹⁾ From lettering field size of 110 x 80 to 170 x 180 mm, the material thickness is 1.5 mm.

²⁾ For a lettering field size of 140 x 100 mm, the material thickness is 1.0 mm

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Aluminum, material thickness:
0.8 mm¹⁾

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Aluminum, black, material thickness:
0.8 mm¹⁾

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Aluminum, colored, material thickness:
0.8 mm

Technical data
TOPMARK NEO • TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data		
Type	Order No.	Pcs./Pkt.
LS-EMSP-AL (39X15)	0831615	5
LS-EMSP-AL (50X15)	0831616	5
LS-EMSP-AL (50X30)	0831617	5
LS-EMSP-AL (75,6X54)	0831618	5
LS-EMSP-AL (90X60)	0831619	5
LS-EMSP-AL (110X80)	0831620	5
LS-EMSP-AL (150X80)	0831621	5
LS-EMSP-AL (150X120)	0831622	5
LS-EMSP-AL (170X180)	0831623	5

Accessories		
TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Technical data
TOPMARK NEO • TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data		
Type	Order No.	Pcs./Pkt.
LS-EMSP-AL (39X15) BK	0831626	5
LS-EMSP-AL (50X15) BK	0831627	5
LS-EMSP-AL (50X30) BK	0831628	5
LS-EMSP-AL (75,6X54) BK	0831629	5
LS-EMSP-AL (90X60) BK	0831630	5
LS-EMSP-AL (110X80) BK	0831631	5
LS-EMSP-AL (150X80) BK	0831632	5
LS-EMSP-AL (150X120) BK	0831633	5
LS-EMSP-AL (170X180) BK	0831634	5

Accessories		
TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Technical data
TOPMARK NEO • TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data		
Type	Order No.	Pcs./Pkt.
LS-EMSP-AL (50X30) RD	0831637	5
LS-EMSP-AL (50X30) OG	0831641	5
LS-EMSP-AL (50X30) BU	0831645	5
LS-EMSP-AL (50X30) GN	0831649	5
LS-EMSP-AL (75,6X54) RD	0831638	5
LS-EMSP-AL (75,6X54) OG	0831642	5
LS-EMSP-AL (75,6X54) BU	0831646	5
LS-EMSP-AL (75,6X54) GN	0831650	5

Accessories		
TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Equipment marking

Equipment marking, self-adhesive,
for screwing or riveting

new



Direct laser marking



Markers made of double-layer plastic

The LS-EMLSP ... product range includes double-layer plastic markers that can be quickly and easily attached with screws or rivets. The markers are also self-adhesive.

- By selecting the material in the PROJECT complete planning and configuration software, the correct laser parameters are automatically transferred to TOPMARK ...
- Marking service: Phoenix Contact can custom-mark many markers according to your requirements
- Designation example:
LS-EMLSP (21,5X15) WH
Lettering field width: 21.5 mm
Lettering field height: 15 mm
Type of packaging: sheet

General data			Technical data		
Can be marked with			TOPMARK LASER • TOPMARK NEO		
Material			TRANSPLY-ABS		
Temperature range			-20 ... 85		
Wipe resistance			DIN EN 61010-1 (VDE 0411-1)		
Components			Free from silicone and halogen		
Ordering data			Accessories		
Description		Color	Type	Order No.	Pcs./Pkt.
Marking label, self-adhesive double-layer plastic labels with mounting holes 3.2 mm in diameter					
1 sheet = 50 labels		white	LS-EMLSP (21,5X15) WH	1045512	10
1 sheet = 24 labels		white	LS-EMLSP (36,3X25) WH	1058990	10
1 sheet = 8 labels		white	LS-EMLSP (70,8X40) WH	1069847	10
Adapter plate, for LS materials, for TOPMARK NEO					
Sheet hopper, for TOPMARK LASER					
			TMN-ADAPTER PLATE-LS	1012104	1
			TOPMARK LASER-MAG SHEET	0831836	1

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Aluminum, material thickness:
0.8 mm

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Aluminum, black, material thickness:
0.8 mm

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Aluminum, colored, material thickness:
0.8 mm

Technical data
TOPMARK NEO • TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs./Pkt.
LS-EMLP-AL (27X15)	0831580	5
LS-EMLP-AL (27X18)	0831581	5
LS-EMLP-AL (27X27)	0804298	5
LS-EMLP-AL (49X15)	0831582	5
LS-EMLP-AL (60X15)	0831583	5
LS-EMLP-AL (60X30)	0831584	5
LS-EMLP-AL (85,6X54)	0831585	5
LS-EMLP-AL (100X60)	0831586	5

Accessories

TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Technical data
TOPMARK NEO • TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs./Pkt.
LS-EMLP-AL (22X22) BK	1027217	5
LS-EMLP-AL (27X15) BK	0831589	5
LS-EMLP-AL (27X18) BK	0831590	5
LS-EMLP-AL (49X15) BK	0831591	5
LS-EMLP-AL (60X15) BK	0831592	5
LS-EMLP-AL (60X30) BK	0831593	5
LS-EMLP-AL (85,6X54) BK	0831594	5
LS-EMLP-AL (100X60) BK	0831595	5

Accessories

TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Technical data
TOPMARK NEO • TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs./Pkt.
LS-EMLP-AL (60X30) RD	0831598	5
LS-EMLP-AL (60X30) BU	0831606	5
LS-EMLP-AL (60X30) GN	0831610	5
LS-EMLP-AL (85,6X54) RD	0831599	5
LS-EMLP-AL (85,6X54) OG	0831603	5
LS-EMLP-AL (85,6X54) BU	0831607	5
LS-EMLP-AL (85,6X54) GN	0831611	5
LS-EMSP-AL (110X80) BU	1050854	5

Accessories

TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Marking and labeling – MARKING system

Equipment marking

Equipment marking, aluminum, for snapping into marker carriers

Can be marked using:



Direct laser marking

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Aluminum, material thickness:
0.8 mm

- The LS-EMP ... product range is available in stainless steel (V4A) or aluminum. LS-EMP ... includes markers that can be quickly and easily fitted in CARRIER-EMP ... label frames
- The use of modern laser technology creates highly resistant and permanent markings
- By selecting the material in the PROJECT complete planning and configuration software, the correct laser parameters are automatically transferred to TOPMARK ...
- Marking service: Phoenix Contact can custom-mark many markers according to your requirements
- **Designation example:**
LS-EMP-AL (27x15)
Lettering field width: 27 mm
Lettering field height: 15 mm
Type of packaging: sheet

General data

Can be marked with
Material
Wipe resistance
Components

Description

Marking label, aluminum, can be snapped into marker carriers

1 sheet = 40 labels
1 sheet = 35 labels
1 sheet = 24 labels
1 sheet = 16 labels
1 sheet = 10 labels
1 sheet = 6 labels
1 sheet = 2 labels

Adapter plate, for LS materials, for TOPMARK NEO

Sheet hopper, for TOPMARK LASER

Marker carriers, for snap-in labels

Marker size: 27 x 15 mm
Marker size: 49 x 15 mm
Marker size: 60 x 15 mm
Marker size: 60 x 30 mm
Marker size: 85 x 54 mm

Marker carriers, for snap-in labels, for buttons and switches 22 mm in diameter

Marker size: 27 x 15 mm
Marker size: 27 x 18 mm

Technical data

TOPMARK NEO • TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs./Pkt.
LS-EMP-AL (27X15)	0831661	5
LS-EMP-AL (27X18)	0831662	5
LS-EMP-AL (49X15)	0831663	5
LS-EMP-AL (60X15)	0831664	5
LS-EMP-AL (60X30)	0831665	5
LS-EMP-AL (85,6X54)	0831666	5
LS-EMP-AL (100X60)	0831667	5

Accessories

TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1
CARRIER-EMP (27X15)	0827451	80
CARRIER-EMP (49X15)	0827452	40
CARRIER-EMP (60X15)	0827453	40
CARRIER-EMP (60X30)	0827454	30
CARRIER-EMP (85,6X54)	0829365	10
CARRIER-EMP 22 (27X15)	0827447	50
CARRIER-EMP 22 (27X18)	0827448	50



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Aluminum, black, material thickness:
0.8 mm

Technical data

TOPMARK NEO • TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs./Pkt.
LS-EMP-AL (27X15) BK	0831669	5
LS-EMP-AL (27X18) BK	0831670	5
LS-EMP-AL (49X15) BK	0831671	5
LS-EMP-AL (60X15) BK	0831672	5
LS-EMP-AL (60X30) BK	0831673	5
LS-EMP-AL (85,6X54) BK	0831674	5
LS-EMP-AL (100X60) BK	0831675	5

Accessories

TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1
CARRIER-EMP (27X15)	0827451	80
CARRIER-EMP (49X15)	0827452	40
CARRIER-EMP (60X15)	0827453	40
CARRIER-EMP (60X30)	0827454	30
CARRIER-EMP (85,6X54)	0829365	10
CARRIER-EMP 22 (27X15)	0827447	50
CARRIER-EMP 22 (27X18)	0827448	50

Marking and labeling – MARKING system

Equipment marking

Equipment marking, plastic, stick-on

Can be marked using:



Direct laser marking



TRANSPLY-ABS, white,
material thickness: 0.8 mm

- The LS-EMLP ... product range includes self-adhesive double-layer plastic device markers
- A wide range of different marker sizes is available for custom designs
- By selecting the material in the PROJECT complete planning and configuration software, the correct laser parameters are automatically transferred to TOPMARK ...
- Marking service: Phoenix Contact can custom-mark many markers according to your requirements
- **Designation example:**
LS-EMLP (11x9) WH
Lettering field width: 11 mm
Lettering field height: 9 mm
Type of packaging: sheet

General data

Can be marked with
Material
Temperature range
Wipe resistance
Components

[°C]

Description

Plastic label sheet, self-adhesive double-layer plastic labels

1 sheet = 255 labels
1 sheet = 221 labels
1 sheet = 220 labels
1 sheet = 170 labels
1 sheet = 130 labels
1 sheet = 100 labels
1 sheet = 176 labels
1 sheet = 160 labels
1 sheet = 104 labels
1 sheet = 56 labels
1 sheet = 120 labels
1 sheet = 78 labels
1 sheet = 60 labels
1 sheet = 54 labels
1 sheet = 36 labels
1 sheet = 33 labels
1 sheet = 30 labels
1 sheet = 30 labels
1 sheet = 20 labels
1 sheet = 10 labels
1 sheet = 16 labels
1 sheet = 8 labels
1 sheet = 6 labels
1 sheet = 2 labels
1 sheet = 1 label

Technical data

TOPMARK NEO • TOPMARK LASER
TRANSPLY-ABS
-20 ... 85
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
LS-EMLP (11X9) WH	0831678	10
LS-EMLP (13X9) WH	0831679	10
LS-EMLP (17X7) WH	0831680	10
LS-EMLP (17X9) WH	0831681	10
LS-EMLP (17,5X12) WH	0831682	10
LS-EMLP (17,5X15) WH	0831683	10
LS-EMLP (20X7) WH	0831684	10
LS-EMLP (20X8) WH	0831685	10
LS-EMLP (22X12) WH	0831686	10
LS-EMLP (22X22) WH	0831687	10
LS-EMLP (27X8) WH	0831688	10
LS-EMLP (27X12,5) WH	0831689	10
LS-EMLP (27X15) WH	0831690	10
LS-EMLP (27X18) WH	0831691	10
LS-EMLP (27X27) WH	0831692	10
LS-EMLP (45X14) WH	0831693	10
LS-EMLP (45X15) WH	0831694	10
LS-EMLP (49X15) WH	0831695	10
LS-EMLP (60X15) WH	0831696	10
LS-EMLP (60X30) WH	0831697	10
LS-EMLP (80X40) WH	0804483	10
LS-EMLP (85,6X54) WH	0831698	10
LS-EMLP (100X60) WH	0831699	10
LS-EMLP (180X180) WH	0804346	10

Accessories

TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Adapter plate, for LS materials, for TOPMARK NEO

Sheet hopper, for TOPMARK LASER



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TRANSPLY-ABS, yellow,
material thickness: 0.8 mm

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TRANSPLY-ABS, silver,
material thickness: 0.8 mm

Technical data
TOPMARK NEO • TOPMARK LASER
TRANSPLY-ABS
-20 ... 85
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs./Pkt.
LS-EMLP (11X9) YE	0831732	10
LS-EMLP (13X9) YE	0831733	10
LS-EMLP (17X7) YE	0831734	10
LS-EMLP (17X9) YE	0831735	10
LS-EMLP (17,5X12) YE	0831736	10
LS-EMLP (17,5X15) YE	0831737	10
LS-EMLP (20X7) YE	0831738	10
LS-EMLP (20X8) YE	0831739	10
LS-EMLP (22X12) YE	0831740	10
LS-EMLP (22X22) YE	0831741	10
LS-EMLP (27X8) YE	0831742	10
LS-EMLP (27X12,5) YE	0831743	10
LS-EMLP (27X15) YE	0831744	10
LS-EMLP (27X18) YE	0831745	10
LS-EMLP (27X27) YE	0831746	10
LS-EMLP (45X14) YE	0831747	10
LS-EMLP (45X15) YE	0831748	10
LS-EMLP (49X15) YE	0831749	10
LS-EMLP (60X15) YE	0831750	10
LS-EMLP (60X30) YE	0831751	10
LS-EMLP (72X20) YE	0804372	10
LS-EMLP (85,6X54) YE	0831752	10
LS-EMLP (100X60) YE	0831753	10
LS-EMLP (180X180) YE	0804348	10

Accessories		
TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Technical data
TOPMARK NEO • TOPMARK LASER
TRANSPLY-ABS
-20 ... 85
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs./Pkt.
LS-EMLP (11X9) SR	0831705	10
LS-EMLP (13X9) SR	0831706	10
LS-EMLP (17X7) SR	0831707	10
LS-EMLP (17X9) SR	0831708	10
LS-EMLP (17,5X12) SR	0831709	10
LS-EMLP (17,5X15) SR	0831710	10
LS-EMLP (20X7) SR	0831711	10
LS-EMLP (20X8) SR	0831712	10
LS-EMLP (22X12) SR	0831713	10
LS-EMLP (22X22) SR	0831714	10
LS-EMLP (27X8) SR	0831715	10
LS-EMLP (27X12,5) SR	0831716	10
LS-EMLP (27X15) SR	0831717	10
LS-EMLP (27X18) SR	0831718	10
LS-EMLP (27X27) SR	0831719	10
LS-EMLP (45X14) SR	0831720	10
LS-EMLP (45X15) SR	0831721	10
LS-EMLP (49X15) SR	0831722	10
LS-EMLP (60X15) SR	0831723	10
LS-EMLP (60X30) SR	0831724	10
LS-EMLP (85,6X54) SR	0831725	10
LS-EMLP (100X60) SR	0831726	10
LS-EMLP (180X180) SR	0804347	10

Accessories		
TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1

Marking and labeling – MARKING system

Equipment marking

Equipment marking, plastic, stick-on, with hole for switch

Can be marked using:



Direct laser marking

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TRANSPLY-ABS, colored,
material thickness: 0.8 mm

- The LS-EMLP 24/ 30/ 32 ... product range includes self-adhesive double-layer plastic device markers. The markers have a hole for switches
- A wide range of different marker sizes is available for custom designs
- By selecting the material in the PROJECT complete planning and configuration software, the correct laser parameters are automatically transferred to TOPMARK ...
- Marking service: Phoenix Contact can custom-mark many markers according to your requirements
- **Designation example:**
LS-EMLP 24 (30x12) WH
Lettering field size: 30 x 12 mm
Hole diameter for switch: 24 mm,
white material with black marking

General data	
Can be marked with	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
TOPMARK NEO • TOPMARK LASER	
TRANSPLY-ABS	
-20 ... 85	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
Plastic label sheet , with hole for switch, diameter: 24 mm, self-adhesive double-layer plastic labels	
1 sheet = 20 labels	white
1 sheet = 20 labels	yellow
1 sheet = 20 labels	silver
Plastic label sheet , with hole for switch, diameter: 30 mm, self-adhesive double-layer plastic labels	
1 sheet = 9 labels	white
1 sheet = 9 labels	yellow
1 sheet = 9 labels	silver
Plastic label sheet , with hole for switch, diameter: 32 mm, self-adhesive double-layer plastic labels	
1 sheet = 12 labels	white
1 sheet = 12 labels	yellow
1 sheet = 12 labels	silver

Ordering data		
Type	Order No.	Pcs./Pkt.
LS-EMLP 24 (30X12) WH	0831700	10
	0831754	10
	0831727	10
LS-EMLP 30 (45X10) WH	0831701	10
	0831755	10
	0831728	10
LS-EMLP 32 (38X14) WH	0831702	10
	0831756	10
	0831729	10

Adapter plate , for LS materials, for TOPMARK NEO
Sheet hopper , for TOPMARK LASER

Accessories		
TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1



Equipment marking, laser foil, stick-on

Can be marked using:



Direct laser marking

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FOR YOU



Polyacrylate, black-white

- The LS-EML ... product range includes self-adhesive, double-layer plastic foil labels that can be custom designed
- The laser foil is characterized by its high heat resistance and particularly strong adhesive properties
- By selecting the material in the PROJECT complete planning and configuration software, the correct laser parameters are automatically transferred to TOPMARK ...
- Marking service: Phoenix Contact can custom-mark many markers according to your requirements
- **Designation example:**
LS-EML (180x180) BK-WH
Lettering field width: 180 mm
Lettering field height: 180 mm
Foil color: black
Marking color: white
Type of packaging: sheet

General data	
Can be marked with	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description
Laser foil , double-layer plastic foil, for custom label design
Lettering field size: 180 x 180 mm

Adapter plate , for LS materials, for TOPMARK NEO
Sheet hopper , for TOPMARK LASER

Technical data	
TOPMARK NEO • TOPMARK LASER	
Polyacrylate	
-40 ... 300	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Ordering data		
Type	Order No.	Pcs./Pkt.
LS-EML (180X180) BK-WH	0831784	10

Accessories		
TMN-ADAPTER PLATE-LS	1012104	1
TOPMARK LASER-MAG SHEET	0831836	1



Equipment marking

Stick-on aluminum device marking

Can be marked using:



UV LED technology

- The EMLP-AL... aluminum product range provides self-adhesive device markers with high adhesive strength
- The markers can be marked quickly, easily, and cost-effectively with the BLUEMARK printing systems
- Marking service: Phoenix Contact can custom-mark EMLP-AL ... markers according to your requirements

- A wide range of different marker sizes is available for custom designs. Formats from 27 x 15 to 100 x 60 mm cover the entire range of equipment and plant marking.

General data	
Can be marked with	
Material	
Wipe resistance	

Description	Color
Marking label, aluminum , self-adhesive, can be snapped in, 0.8 mm thick	
Lettering field size: 27 x 15 mm	aluminum color
Lettering field size: 27 x 18 mm	aluminum color
Lettering field size: 27 x 27 mm	aluminum color
Lettering field size: 49 x 15 mm	aluminum color
Lettering field size: 60 x 15 mm	aluminum color
Lettering field size: 60 x 30 mm	aluminum color
Lettering field size: 85.6 x 54 mm	aluminum color
Lettering field size: 100 x 60 mm	aluminum color



- Using modern UV LED printing technology, highly resistant and optimum printing quality can be achieved, which is resistant to solvents. The print quality is even suitable for use under harsh industrial conditions

- In conjunction with magazines, optimum printing accuracy is guaranteed
- In addition, up to 20 magazines can be automatically fed in for the BLUEMARK ID printing systems

Magazines, for BLUEMARK printers
for accommodating EMP-AL (27X15), EMLP-AL (27X15)
for accommodating EMP-AL (27X18), EMLP-AL (27X18)
for accommodating EMP-AL (27x27)
for accommodating EMP-AL (49X15), EMLP-AL (49X15), EMSP-AL (39X15)
for accommodating EMP-AL (60X15), EMLP-AL (60X15), EMSP-AL (50X15)
for accommodating EMP-AL (60X30), EMLP-AL (60X30), and ...-EX versions, EMSP-AL (50X30)
for accommodating EMP-AL (85,6X54), EMLP-AL (85,6X54), and ...-EX versions, EMSP-AL (75,6X54)
for accommodating EMLP-AL (100X60) and ...-EX versions, EMSP-AL (90X60)

PRINTED
FOR YOU



Aluminum, material thickness:
0.8 mm

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED

Aluminum
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Type	Order No.	Pcs./Pkt.
EMLP-AL (27X15)	0830508	90
EMLP-AL (27X18)	0830509	90
EMLP-AL (27X27)	1011796	90
EMLP-AL (49X15)	0830511	45
EMLP-AL (60X15)	0830512	45
EMLP-AL (60X30)	0830513	45
EMLP-AL (85,6X54)	0830514	15
EMLP-AL (100X60)	0830515	15

Accessories

BLUEMARK MAG EM-M (27X15)	0802736	1
BLUEMARK MAG EM-M (27X18)	0802737	1
BLUEMARK MAG EM-M (27X27)	1011801	1
BLUEMARK MAG EM-M (49X15)	0802738	1
BLUEMARK MAG EM-M (60X15)	0802739	1
BLUEMARK MAG EM-M (60X30)	0802740	1
BLUEMARK MAG EM-M (85,6X54)	0802741	1
BLUEMARK MAG EM-M (100X60)	0802742	1

Marking and labeling – MARKING system

Equipment marking

Aluminum equipment marking for screwing or riveting

Can be marked using:



UV LED technology



Aluminum, material thickness:
0.8 mm

- The aluminum EMSP-AL ... product range includes markers that can be quickly and easily fitted with screws or rivets and is characterized by:
- Double-sided marking option
- High-quality appearance
- The markers can be marked quickly, easily, and cost-effectively with the BLUEMARK printing systems
- Using modern UV LED printing technology, highly resistant and optimum printing quality can be achieved, which is resistant to solvents. The print quality is even suitable for use under harsh industrial conditions
- In conjunction with magazines, optimum printing accuracy is guaranteed
- Marking service: Phoenix Contact can custom-mark many EMSP-AL ... markers according to your requirements

Notes:

For corresponding rivets for fixing the EMSP-AL ..., see page 397.

Drilling diagrams can be found at phoenixcontact.net/products

General data

Can be marked with

Material

Wipe resistance

Description

Marking label, aluminum, 0.8 mm thick, with mounting holes
3.2 mm in diameter

Lettering field size: 39 x 15 mm

aluminum
color

Lettering field size: 50 x 15 mm

aluminum
color

Lettering field size: 50 x 30 mm

aluminum
color

Lettering field size: 75.6 x 54 mm

aluminum
color

Lettering field size: 90 x 60 mm

aluminum
color

Magazines, for BLUEMARK printers

for accommodating EMP-AL (49X15), EMLP-AL (49X15),
EMSP-AL (39X15)

for accommodating EMP-AL (60X15), EMLP-AL (60X15),
EMSP-AL (50X15)

for accommodating EMP-AL (60X30), EMLP-AL (60X30),
and ...-EX versions, EMSP-AL (50X30)

for accommodating EMP-AL (85,6X54), EMLP-AL (85,6X54),
and ...-EX versions, EMSP-AL (75,6X54)

for accommodating EMLP-AL (100X60) and ...-EX versions,
EMSP-AL (90X60)

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED

Aluminum

DIN EN 61010-1 (VDE 0411-1)

Ordering data

Type	Order No.	Pcs./Pkt.
EMSP-AL (39X15)	0830510	45
EMSP-AL (50X15)	0830773	45
EMSP-AL (50X30)	0830502	45
EMSP-AL (75,6X54)	0830503	15
EMSP-AL (90X60)	0830504	15

Accessories

BLUEMARK MAG EM-M (49X15)	0802738	1
BLUEMARK MAG EM-M (60X15)	0802739	1
BLUEMARK MAG EM-M (60X30)	0802740	1
BLUEMARK MAG EM-M (85,6X54)	0802741	1
BLUEMARK MAG EM-M (100X60)	0802742	1

Aluminum equipment marking for snapping into marker carriers



Can be marked using:



UV LED technology



Aluminum, material thickness:
0.8 mm

- The aluminum EMP-AL ... product range includes markers that can be quickly and easily fitted into existing CARRIER-EMP ... label frames and is characterized by:
- Double-sided marking option
- The markers can be marked quickly, easily, and cost-effectively with the BLUEMARK printing systems
- Using modern UV LED printing technology, highly resistant and optimum printing quality can be achieved, which is resistant to solvents. The print quality is even suitable for use under harsh industrial conditions
- In conjunction with magazines, optimum printing accuracy is guaranteed
- Marking service: Phoenix Contact can custom-mark many EMP-AL ... markers according to your requirements

General data

Can be marked with

Material

Wipe resistance

Technical data

BLUEMARK ID • BLUEMARK ID COLOR • BLUEMARK CLED

Aluminum

DIN EN 61010-1 (VDE 0411-1)

Ordering data

Description	Color
Marking label, aluminum , 0.8 mm thick, can be snapped into marker carriers	
Lettering field size: 27 x 15 mm	aluminum color
Lettering field size: 27 x 18 mm	aluminum color
Lettering field size: 49 x 15 mm	aluminum color
Lettering field size: 60 x 15 mm	aluminum color
Lettering field size: 60 x 30 mm	aluminum color
Lettering field size: 85.6 x 54 mm	aluminum color

Type	Order No.	Pcs./Pkt.
EMP-AL (27X15)	0830776	90
EMP-AL (27X18)	0830777	90
EMP-AL (49X15)	0830778	45
EMP-AL (60X15)	0830779	45
EMP-AL (60X30)	0830796	45
EMP-AL (85,6X54)	0830797	15

Magazines, for BLUEMARK printers

for accommodating EMP-AL (27X15), EMLP-AL (27X15)

for accommodating EMP-AL (27X18), EMLP-AL (27X18)

for accommodating EMP-AL (49X15), EMLP-AL (49X15), EMSP-AL (39X15)

for accommodating EMP-AL (60X15), EMLP-AL (60X15), EMSP-AL (50X15)

for accommodating EMP-AL (60X30), EMLP-AL (60X30), and ...-EX versions, EMSP-AL (50X30)

for accommodating EMP-AL (85,6X54), EMLP-AL (85,6X54), and ...-EX versions, EMSP-AL (75,6X54)

Accessories

BLUEMARK MAG EM-M (27X15)	0802736	1
BLUEMARK MAG EM-M (27X18)	0802737	1
BLUEMARK MAG EM-M (49X15)	0802738	1
BLUEMARK MAG EM-M (60X15)	0802739	1
BLUEMARK MAG EM-M (60X30)	0802740	1
BLUEMARK MAG EM-M (85,6X54)	0802741	1



Equipment marking

Stick-on UniCard equipment marking Can be marked using:



UV LED technology



Plotter



Unmarked or marked according to customer specifications

- The UC-EMLP ... UniCard marking range includes self-adhesive device markers with good adhesive properties
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements



General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Technical data

Ordering data

Description	Color
UniCard, with self-adhesive plastic labels	
10-section, lettering field size: 11 x 9 mm	white yellow silver
10-section, lettering field size: 15 x 5 mm	white yellow silver
10-section, lettering field size: 17 x 9 mm	white yellow silver
10-section, lettering field size: 17 x 15 mm	white yellow silver
10-section, lettering field size: 20 x 8 mm	white yellow silver
6-section, lettering field size: 22 x 22 mm	white yellow silver
8-section, lettering field size: 27 x 12.5 mm	white yellow silver blue green
8-section, lettering field size: 27 x 15 mm	white yellow silver
8-section, lettering field size: 27 x 18 mm	white yellow silver
6-section, lettering field size: 27 x 27 mm	white yellow silver
4-section, lettering field size: 49 x 15 mm	white silver yellow
4-section, lettering field size: 60 x 15 mm	white yellow silver
3-section, lettering field size: 60 x 30 mm	white yellow silver

Type	Order No.	Pcs./Pkt.
UC-EMLP (11X9)	0819291	10
UC-EMLP (11X9) YE	0822602	10
UC-EMLP (11X9) SR	0828094	10
UC-EMLP (15X5)	0819301	10
UC-EMLP (15X5) YE	0822615	10
UC-EMLP (15X5) SR	0828095	10
UC-EMLP (17X9)	0819314	10
UC-EMLP (17X9) YE	0822628	10
UC-EMLP (17X9) SR	0828096	10
UC-EMLP (17X15)	0827885	10
UC-EMLP (17X15) YE	0827886	10
UC-EMLP (17X15) SR	0827887	10
UC-EMLP (20X8)	0819327	10
UC-EMLP (20X8) YE	0822631	10
UC-EMLP (20X8) SR	0828097	10
UC-EMLP (22X22)	0825463	10
UC-EMLP (22X22) YE	0825464	10
UC-EMLP (22X22) SR	0825465	10
UC-EMLP (27X12,5)	0825469	10
UC-EMLP (27X12,5) YE	0825470	10
UC-EMLP (27X12,5) SR	0825471	10
UC-EMLP (27X12,5) BU	0830853	10
UC-EMLP (27X12,5) GN	0830854	10
UC-EMLP (27X15)	0827894	10
UC-EMLP (27X15) YE	0827895	10
UC-EMLP (27X15) SR	0827896	10
UC-EMLP (27X18)	0825475	10
UC-EMLP (27X18) YE	0825476	10
UC-EMLP (27X18) SR	0825477	10
UC-EMLP (27X27)	0825481	10
UC-EMLP (27X27) YE	0825482	10
UC-EMLP (27X27) SR	0825483	10
UC-EMLP (49X15)	0827903	10
UC-EMLP (49X15) SR	0827905	10
UC-EMLP (49X15) YE	0827904	10
UC-EMLP (60X15)	0819330	10
UC-EMLP (60X15) YE	0822644	10
UC-EMLP (60X15) SR	0828088	10
UC-EMLP (60X30)	0819343	10
UC-EMLP (60X30) YE	0822657	10
UC-EMLP (60X30) SR	0828091	10

Magazine, for CMS-P1-PLOTTER and PLOTMARK

Accessories

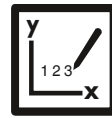
P1 UC-MAG 6	5146121	1

Stick-on UniCard equipment marking for applications in process engineering

Can be marked using:



UV LED technology



Plotter



Unmarked or marked according to customer specifications



- The UC-EMLP ...-EX UniCard marking range includes self-adhesive device markers with good adhesive properties
- The marking satisfies requirements in terms of legibility, adhesion, and wipe resistance in potentially explosive areas (ATEX), in accordance with IEC/EN 60079-0, and these requirements are still met following storage in typical gas atmospheres. Phoenix Contact developed these sheets specifically for process engineering, which is where these requirements typically arise. These sheets meet the requirements for wipe resistance in accordance with DIN EN 61010-1 against aggressive media such as acetone, ethanol, and MEK
- Thanks to the special adhesive, the marker satisfies the stringent requirements of process engineering
- The BLUEMARK printing systems mark the markers quickly, easily, and cost-effectively
- Using modern UV LED printing technology, highly resistant and optimum printing quality can be achieved, which is resistant to solvents. The print quality is even suitable for use under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER
PA
V2
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
UniCard, with self-adhesive plastic labels	
6-section, lettering field size: 22 x 22 mm	white
8-section, lettering field size: 27 x 18 mm	white
6-section, lettering field size: 27 x 27 mm	white
4-section, lettering field size: 49 x 15 mm	white
3-section, lettering field size: 60 x 30 mm	white

Magazine, for CMS-P1-PLOTTER and PLOTMARK

Technical data

Ordering data

Type	Order No.	Pcs./Pkt.
UC-EMLP (22X22)-EX	0803224	10
UC-EMLP (27X18)-EX	0803225	10
UC-EMLP (27X27)-EX	0803226	10
UC-EMLP (49X15)-EX	0803227	10
UC-EMLP (60X30)-EX	0803228	10

Accessories

P1 UC-MAG 6	5146121	1

Marking and labeling – MARKING system

Equipment marking

UniCard equipment marking for screwing or riveting

Can be marked using:



UV LED technology



Plotter

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

- The UC-EMSP ... UniCard marking range includes markers that can be attached using screws or rivets
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:
For corresponding rivet for fixing the UC-EMSP ..., see page 397.
Drilling diagrams can be found at phoenixcontact.net/products

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Technical data

Ordering data

Description	Color
UniCard, plastic labels with mounting holes 3.2 mm in diameter	
4-section, lettering field size: 50 x 15 mm	white
	yellow
	silver
	blue
	red
3-section, lettering field size: 50 x 30 mm	white
	yellow
	silver

Type	Order No.	Pcs./Pkt.
UC-EMSP (50X15)	0828706	10
UC-EMSP (50X15) YE	0828707	10
UC-EMSP (50X15) SR	0828708	10
UC-EMSP (50X15) BU	0803134	10
UC-EMSP (50X15) RD	0803135	10
UC-EMSP (50X30)	0828709	10
UC-EMSP (50X30) YE	0828710	10
UC-EMSP (50X30) SR	0828711	10

Accessories

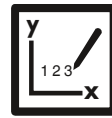
P1 UC-MAG 6	5146121	1

UniCard equipment marking for snapping into marker carriers

Can be marked using:



UV LED technology



Plotter



Unmarked or marked according to
customer specifications

- The UC-EMP ... UniCard marking range includes markers that can be fitted into existing CARRIER-EMP ... label frames
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

For corresponding label frames, see page 348.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED •
PLOTMARK • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniCard, 1.2 mm thick 8-section, lettering field size: 17 x 15 mm	white	UC-EMP (17X15)	0825421	10
	yellow	UC-EMP (17X15) YE	0825422	10
	silver	UC-EMP (17X15) SR	0825423	10
8-section, lettering field size: 27 x 15 mm	white	UC-EMP (27X15)	0825439	10
	yellow	UC-EMP (27X15) YE	0825440	10
	silver	UC-EMP (27X15) SR	0825441	10
4-section, lettering field size: 49 x 15 mm	white	UC-EMP (49X15)	0825457	10
	yellow	UC-EMP (49X15) YE	0825458	10
	silver	UC-EMP (49X15) SR	0825459	10
4-section, lettering field size: 60 x 15 mm	white	UC-EMP (60X15)	0822259	10
	yellow	UC-EMP (60X15) YE	0825330	10
	silver	UC-EMP (60X15) SR	0827647	10
3-section, lettering field size: 60 x 30 mm	white	UC-EMP (60X30)	0822275	10
	yellow	UC-EMP (60X30) YE	0825331	10
	silver	UC-EMP (60X30) SR	0827648	10

Accessories

Magazine, for CMS-P1-PLOTTER and PLOTMARK

P1 UC-MAG 6	5146121	1

Equipment marking

UniCard equipment marking for snapping into marker carriers

Can be marked using:



UV LED technology



Plotter



Unmarked or marked according to
customer specifications

- The UC-EMP ... UniCard marking range includes markers for all applications
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The UC-EMP ... device markers are ideal for fitting into existing CARRIER-EMP ... label frames
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Notes:

For corresponding label frames, see page 348.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED •
PLOTMARK • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color
UniCard , 1.2 mm thick	
10-section, lettering field size: 27 x 8 mm	white yellow silver
8-section, lettering field size: 27 x 12.5 mm	white yellow silver
8-section, lettering field size: 27 x 15 mm	white yellow silver
8-section, lettering field size: 27 x 18 mm	white yellow silver
6-section, lettering field size: 27 x 27 mm	white yellow silver

Type	Order No.	Pcs./Pkt.
UC-EMP (27X8)	0825427	10
UC-EMP (27X8) YE	0825428	10
UC-EMP (27X8) SR	0825429	10
UC-EMP (27X12,5)	0825433	10
UC-EMP (27X12,5) YE	0825434	10
UC-EMP (27X12,5) SR	0825435	10
UC-EMP (27X15)	0825439	10
UC-EMP (27X15) YE	0825440	10
UC-EMP (27X15) SR	0825441	10
UC-EMP (27X18)	0825445	10
UC-EMP (27X18) YE	0825446	10
UC-EMP (27X18) SR	0825447	10
UC-EMP (27X27)	0825451	10
UC-EMP (27X27) YE	0825452	10
UC-EMP (27X27) SR	0825453	10

Accessories

Magazine, for CMS-P1-PLOTTER and PLOTMARK

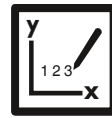
P1 UC-MAG 6	5146121	1

UniCard equipment marking for devices from various manufacturers

Can be marked using:



UV LED technology



Plotter



Unmarked or marked according to customer specifications



- The UC-EM ... UniCard marking range includes markers for devices and switching devices from a wide variety of manufacturers
- An overview of the devices that support marking and the relevant manufacturers can be found starting on page 262
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data

Can be marked with

Number of individual labels
Material
Flammability rating in accordance with UL 94
Temperature range
Wipe resistance
Components

[°C]

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED •
PLOTMARK • CMS-P1-PLOTTER
20
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniCard , for marking devices from the following manufacturers: Siemens		UC-EM (10X7)	0825487	10
Lettering field size: 10 x 7 mm	white	UC-EM (10X7) TQ	0825488	10
Lettering field size: 10 x 7 mm	turquoise			
UniCard , for marking devices from the following manufacturers: Bosch, ifm-electronic, Lumberg, Pepperl & Fuchs, Siemens		UC-EM (10X8)	0825491	10
Lettering field size: 10 x 8 mm	white	UC-EM (10X8) TQ	0825492	10
Lettering field size: 10 x 8 mm	turquoise			
UniCard , for marking devices from the following manufacturers: ABB, Lumberg		UC-EM (17,5X7,5)	0825495	10
Lettering field size: 17.5 x 7.5 mm	white			
UniCard , for marking devices from the following manufacturers: ABB, ifm-electronic, Moeller, Murr Elektronik		UC-EM (17,5X8)	0823766	10
Lettering field size: 17.5 x 8 mm	white			
Magazine , for CMS-P1-PLOTTER and PLOTMARK		P1 UC-MAG 6	5146121	1

Equipment marking

UniCard equipment marking for devices from various manufacturers

Can be marked using:



UV LED technology



Plotter



Unmarked or marked according to customer specifications

- The UC-EM ... UniCard marking range includes markers for devices and switching devices from a wide variety of manufacturers
- An overview of the devices that support marking and the relevant manufacturers can be found starting on page 262
- The BLUEMARK printing systems mark the markers, which are supplied in uniform sheets, quickly and easily
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data

Can be marked with

Number of individual labels

Material

Flammability rating in accordance with UL 94

Temperature range

[°C]

Wipe resistance

Components

Technical data

BLUEMARK ID • BLUEMARK ID COLOR • BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER • PLOTMARK

20

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color
UniCard , for marking devices from the following manufacturers: Murr Elektronik, Phoenix Contact, Weidmüller	
Lettering field size: 17.5 x 9 mm	white yellow
UniCard , for marking devices from the following manufacturers: Schneider Electric, ifm-electronic	
Lettering field size: 18 x 8 mm	white
UniCard , for marking devices from the following manufacturers: Lumberg, Weidmüller	
Lettering field size: 19 x 9 mm	white yellow
UniCard , for marking devices from the following manufacturers: Harting, ifm-electronic, Phoenix Contact, Siemens	
Lettering field size: 20 x 7 mm	white turquoise

Type	Order No.	Pcs./Pkt.
UC-EM (17,5X9) UC-EM (17,5X9) YE	0827490	10
	0827494	10
UC-EM (18X8)	0825497	10
UC-EM (19X9) UC-EM (19X9) YE	0827492	10
	0827496	10
UC-EM (20X7) UC-EM (20X7) TQ	0825499	10
	0825500	10

Accessories

Magazine , for CMS-P1-PLOTTER and PLOTMARK		
P1 UC-MAG 6	5146121	1

UniCard equipment marking for devices from various manufacturers

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

General data		Technical data		
Can be marked with		BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • PLOTMARK • CMS-P1-PLOTTER		
Number of individual labels		20		
Material		PA		
Flammability rating in accordance with UL 94		V2		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
UniCard , for marking devices from the following manufacturers: ABB, CONTA-CLIP, Escha, Festo, ifm-electronik, Harting, Moeller, Phoenix Contact, Siemens				
Lettering field size: 20 x 9 mm	white	UC-EM (20X9)	0825503	10
Lettering field size: 20 x 9 mm	yellow	UC-EM (20X9) YE	0827637	10
Lettering field size: 20 x 9 mm	turquoise	UC-EM (20X9) TQ	0825504	10
	green	UC-EM (20X9) GN	1017721	10
	red	UC-EM (20X9) RD	1017722	10
	blue	UC-EM (20X9) BU	1017723	10
	silver	UC-EM (20X9) SR	1057865	10
UniCard , for marking devices from the following manufacturers: Schneider Electric, ifm-electronic, Murr Elektronik				
Lettering field size: 21 x 8 mm	white	UC-EM (21X8)	0825507	10
		Accessories		
Magazine , for CMS-P1-PLOTTER and PLOTMARK				
		P1 UC-MAG 5	5146118	1

Equipment marking

Snap-in UniCard equipment marking for Axioline E series

Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer



Unmarked or marked according to customer specifications

The UCT-EM ... UniCard marking range includes markers for devices and switching devices from a wide range of manufacturers

- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- The UCT sheet can also be used with the THERMOMARK CARD-UCT-MAG7 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data

Can be marked with

Material
Flammability rating in accordance with UL 94
Temperature range
Wipe resistance
Components

[°C]

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen, and cadmium

Ordering data

Description	Color
UniCard, for marking Phoenix Contact devices, Axioline	
Lettering field size: 7 x 10 mm, 30 individual labels	white

Type	Order No.	Pcs./Pkt.
UCT-EM (7X10)	0830765	10

Magazine for THERMOMARK CARD and THERMOMARK PRIME
for accommodating UCT-WMT..., UCT-EM (7x10)

Accessories

TMP-UCT-MAG7	0803349	1

UniCard equipment marking for devices from various manufacturers



Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer



Unmarked or marked according to customer specifications

The UCT-EM ... UniCard marking range includes markers for devices and switching devices from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- An overview of the devices that support marking and the relevant manufacturers can be found starting on page 262
- The UCT sheets can also be used with the corresponding THERMOMARK CARD-UCT-MAG1, 12, 13, and 20 magazines in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data

Can be marked with

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
UniCard , for marking devices from the following manufacturers: CONTA-CLIP, Murr Elektronik, 66 individual markers	
Lettering field size: 5 x 10 mm	white
UniCard , for marking devices from the following manufacturers: CONTA-CLIP, Festo, Finder, 54 individual markers	
Lettering field size: 6 x 10 mm	white
UniCard , for marking devices from the following manufacturers: Beckhoff, Escha, Lumberg, Murr Elektronik, Pepperl & Fuchs, Turck, 54 individual markers	
Lettering field size: 10 x 5 mm	white
UniCard , for marking devices from the following manufacturers: Siemens, 54 individual markers	
Lettering field size: 10 x 7 mm	white
	yellow
Lettering field size: 10 x 7 mm	turquoise
UniCard , for marking devices from the following manufacturers: Bosch, ifm-electronic, Lumberg, Pepperl & Fuchs, Siemens, 54 individual markers	
Lettering field size: 10 x 8 mm	white
	yellow
Lettering field size: 10 x 8 mm	turquoise

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT-TM..., UCT1(U)-TM..., UCT5-TM..., UCT-EM (5x10), UCT-EM (6x10)

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT-EM (10x5)

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT-EM (10x7), UCT-WMTB (29x8)

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT-EM (10x8)

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
UCT-EM (5X10)	0801497	10
UCT-EM (6X10)	0801493	10
UCT-EM (10X5)	0801470	10
UCT-EM (10X7)	0801498	10
UCT-EM (10X7) YE	0803483	10
UCT-EM (10X7) TQ	0801499	10
UCT-EM (10X8)	0801485	10
UCT-EM (10X8) YE	0803482	10
UCT-EM (10X8) TQ	0801486	10

Accessories

TMP-UCT-MAG1	0803342	1
TMP-UCT-MAG13	0803355	1
TMP-UCT-MAG20	0803364	1
TMP-UCT-MAG12	0803354	1

Equipment marking

UniCard equipment marking for devices from various manufacturers



The UCT-EM ... UniCard marking range includes markers for devices and switching devices from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- An overview of the devices that support marking and the relevant manufacturers can be found starting on page 262
- The UCT sheets can also be used with the corresponding THERMOMARK CARD-UCT-MAG1, 12, 13, and 20 magazines in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer



Unmarked or marked according to customer specifications

General data

Can be marked with

Number of individual labels
Material
Flammability rating in accordance with UL 94
Temperature range
Wipe resistance
Components

[°C]

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0
30
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color
UniCard , for marking devices from the following manufacturers: Bernecke + Rainer Lettering field size: 12 x 3.3 mm	white yellow
UniCard , for marking devices from the following manufacturers: Bernecke + Rainer Lettering field size: 12 x 6 mm	white yellow
UniCard , for marking devices from the following manufacturers: Beckhoff, Wago Lettering field size: 12 x 7 mm	white
UniCard , for marking devices from the following manufacturers: Allen Bradley, Finder Lettering field size: 12 x 8 mm	white
UniCard , for marking devices from the following manufacturers: Siemens Lettering field size: 15 x 10 mm	white

Type	Order No.	Pcs./Pkt.
UCT-EM (12X3,3)	0801502	10
UCT-EM (12X3,3) YE	1057107	10
UCT-EM (12X6)	0801503	10
UCT-EM (12X6) YE	1049774	10
UCT-EM (12X7)	0801501	10
UCT-EM (12X8)	1058146	10
UCT-EM (15X10)	0801504	10

Accessories

Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (12x3,3), UCT-EM (12x6)
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (10x8)
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (20x7), UCT-EM (17,5x8)
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (15x10)
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (12x7)

TMP-UCT-MAG9	0803351	1
TMP-UCT-MAG12	0803354	1
TMP-UCT-MAG8	0803350	1
TMP-UCT-MAG19	0803363	1
TMP-UCT-MAG30	0804461	1

UniCard equipment marking for devices from various manufacturers

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Unmarked or marked according to customer specifications

General data		Technical data		
Can be marked with		TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0		
Number of individual labels		24		
Material		PC		
Flammability rating in accordance with UL 94		V0		
Temperature range		-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
UniCard , for marking devices from the following manufacturers: ABB, Festo, Finder, Murr Elektronik, Wago				
Lettering field size: 17 x 9 mm	white	UCT-EM (17X9)	0801475	10
Lettering field size: 17 x 9 mm	yellow	UCT-EM (17X9) YE	0801476	10
UniCard , for marking devices from the following manufacturers: Allen Bradley, Festo				
Lettering field size: 17 x 10 mm	white	UCT-EM (17X10)	0801483	10
Lettering field size: 17 x 10 mm	yellow	UCT-EM (17X10) YE	0801484	10
UniCard , for marking devices from the following manufacturers: ABB, Lumberg				
Lettering field size: 17,5 x 7,5 mm	white	UCT-EM (17,5X7,5)	0801482	10
UniCard , for marking devices from the following manufacturers: ABB, Schneider Electric, ifm-electronic, Murr Elektronik				
Lettering field size: 17 x 8 mm	white	UCT-EM (17X8)	0801842	10
		Accessories		
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (17x9)				
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (17x10)				
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (17,5x7,5)				
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (17x8), UCT-EM (21x8)				
		TMP-UCT-MAG16	0803358	1
		TMP-UCT-MAG11	0803353	1
		TMP-UCT-MAG18	0803361	1
		TMP-UCT-MAG14	0803356	1

Equipment marking

UniCard equipment marking for devices from various manufacturers

Can be marked using:



Direct laser marking



UV LED technology



Thermal transfer

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

The UCT-EM ... UniCard marking range includes markers for devices and switching devices from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- An overview of the devices that support marking and the relevant manufacturers can be found starting on page 262
- The UCT sheets can also be used with the corresponding THERMOMARK CARD-UCT-MAG8, 11, 14, 15, 17, and 22 magazines in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data

Can be marked with

Number of individual labels

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0

24

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color
UniCard , for marking devices from the following manufacturers: ABB, ifm-electronic, Moeller, Murr Elektronik	
Lettering field size: 17.5 x 8 mm	white
UniCard , for marking devices from the following manufacturers: Murr Elektronik, Phoenix Contact, Weidmüller	
Lettering field size: 17.5 x 9 mm	white
Lettering field size: 17.5 x 9 mm	yellow
UniCard , for marking devices from the following manufacturers: ABB, Schneider Electric, ifm-electronic, Murr Elektronik	
Lettering field size: 18 x 8 mm	white
UniCard , for marking devices from the following manufacturers: ifm-electronic, Phoenix Contact, Siemens	
Lettering field size: 20 x 7 mm	white
Lettering field size: 20 x 7 mm	yellow
Lettering field size: 20 x 7 mm	turquoise

Type	Order No.	Pcs./Pkt.
UCT-EM (17,5X8)	0801496	10
UCT-EM (17,5X9)	0801491	10
UCT-EM (17,5X9) YE	0801492	10
UCT-EM (18X8)	0801488	10
UCT-EM (20X7)	0801494	10
UCT-EM (20X7) YE	0803481	10
UCT-EM (20X7) TQ	0801495	10

Accessories

Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (20x7), UCT-EM (17,5x8)
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (17,5x9)
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (18x8)

TMP-UCT-MAG8	0803350	1
TMP-UCT-MAG22	0803366	1
TMP-UCT-MAG17	0803360	1

UniCard equipment marking for devices from various manufacturers

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FOR YOU



Unmarked or marked according to customer specifications



Unmarked

General data		Technical data			Technical data		
Can be marked with		TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0			TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0		
Number of individual labels		24			12		
Material		PC			PC		
Flammability rating in accordance with UL 94		V0			V0		
Temperature range		-40 ... 120			-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen			Free from silicone and halogen		
Ordering data		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
UniCard , for marking devices from the following manufacturers: Escha, Murr Elektronik, Turck Lettering field size: 20 x 8 mm UniCard , for marking devices from the following manufacturers: ABB, CONTA-CLIP, Escha, Festo, ifm-electronik, Lumberg, Moeller, Murr Elektronik, Pepperl & Fuchs, Phoenix Contact, Siemens, Turck, Weidmüller Lettering field size: 20 x 9 mm Lettering field size: 20 x 9 mm Lettering field size: 20 x 9 mm UniCard , for marking devices from the following manufacturers: ABB, Schneider Electric, ifm-electronic, Murr Elektronik Lettering field size: 21 x 8 mm UniCard , for marking devices from Festo, lettering field size: 12.5 x 6 mm	white	UCT-EM (20X8)	0801477	10			
	white	UCT-EM (20X9)	0801471	10			
	turquoise	UCT-EM (20X9) TQ	0801473	10			
	yellow	UCT-EM (20X9) YE	0801472	10			
	white	UCT-EM (21X8)	0801489	10			
	white				UCT-EMNP (12,5X6)	1025150	10
Accessories		Accessories			Accessories		
Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (17x10) Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (20x9) Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EM (17x8), UCT-EM (21x8) Magazine , for THERMOMARK PRIME and THERMOMARK CARD for accommodating UCT-EMNP (12,5x6), UCT-EMP (35x9)		TMP-UCT-MAG11	0803353	1			
		TMP-UCT-MAG15	0803357	1			
		TMP-UCT-MAG14	0803356	1			
					TMP-UCT-MAG31	1025505	1

Equipment marking

Stick-on UniCard equipment marking

Can be marked using:

new



Direct laser marking



UV LED technology



Thermal transfer



Unmarked

- The UCT4-EMLP ... UniCard marking range includes markers for all applications
- The UCT4-EMLP ... device markers can be adhered to SIRIUS ACT 3SU ... series marker carriers from SIEMENS
 - The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
 - The magazine geometry automatically ensures printing with a high degree of positioning accuracy
 - The large temperature range for application means that the labels can be used in control cabinets as well as in the field
 - The sheets provide space for including function texts
 - The large temperature range for application means that the labels can be used in control cabinets as well as in the field
 - An overview of the devices that support marking plus their manufacturers can be found starting on page 262
 - Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data

Can be marked with

Material
Flammability rating in accordance with UL 94
Temperature range
Wipe resistance
Components

[°C]

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0
PC V0
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color
UniCard, with self-adhesive plastic labels for marking Siemens label holders: 6-section, lettering field size: 27 x 12.5 mm	
UniCard, with self-adhesive plastic labels for marking markers for Siemens label holders: 6-section, lettering field size: 27 x 17.5 mm	
UniCard, with self-adhesive plastic labels for marking markers for Siemens label holders: 6-section, lettering field size: 27 x 27 mm	
Magazine, for THERMOMARK PRIME and THERMOMARK CARD for accommodating UCT4-EM(L)P..	

Type	Order No.	Pcs./Pkt.
UCT4-EMLP (27X12,5)	1056543	10
UCT4-EMLP (27X12,5) SR	1056550	10
UCT4-EMLP (27X17,5)	1056547	10
UCT4-EMLP (27X17,5) SR	1056553	10
UCT4-EMLP (27X27)	1056549	10
UCT4-EMLP (27X27) SR	1056554	10

Accessories

Type	Order No.	Pcs./Pkt.
TMP-UCT-MAG32	1082129	1

UniCard equipment marking for snapping into marker carriers

Can be marked using:

new



Direct laser marking



UV LED technology



Thermal transfer



Unmarked

- The UCT4-EMLP ... UniCard marking range includes markers for all applications
- The UCT4-EMLP ... device markers can be snapped into SIRIUS ACT 3SU ... series marker carriers from SIEMENS
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely with marking systems
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- An overview of the devices that support marking plus their manufacturers can be found starting on page 262
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data

Can be marked with

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

TOPMARK NEO • TOPMARK LASER • BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED • THERMOMARK PRIME • THERMOMARK CARD 2.0
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color
UniCard, with plastic labels for marking Siemens label holders: 6-section, lettering field size: 27 x 12.5 mm	white
	silver
UniCard, with plastic labels for marking markers for Siemens label holders: 6-section, lettering field size: 27 x 17.5 mm	white
	silver
UniCard, with plastic labels for marking markers for Siemens label holders: 6-section, lettering field size: 27 x 27 mm	white
	silver

Type	Order No.	Pcs./Pkt.
UCT4-EMP (27X12,5)	1073985	10
UCT4-EMP (27X12,5) SR	1073986	10
UCT4-EMP (27X17,5)	1073987	10
UCT4-EMP (27X17,5) SR	1073989	10
UCT4-EMP (27X27)	1073990	10
UCT4-EMP (27X27) SR	1073991	10

Magazine, for THERMOMARK PRIME and THERMOMARK CARD
for accommodating UCT4-EM(L)P...

Accessories

Type	Order No.	Pcs./Pkt.
TMP-UCT-MAG32	1082129	1

Equipment marking

Stick-on UniSheet equipment marking



Can be marked using:



UV LED technology



Thermal transfer



Unmarked or marked according to customer specifications

- The US-EMLP ... UniSheet marking range includes self-adhesive device markers with good adhesive properties in different sizes for:
- Equipment marking
- Module marking
- Switchgear marking
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- More label sizes can be found at: phoenixcontact.net/products
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

Marking of circuit breakers, for example:

- 8.8 x 15 mm for ABB, Schneider Electric
- 17 x 15 mm for ABB, Hager, Legrand
- 35 x 15 mm for ABB, Legrand, Schneider Electric
- 52.5 x 15 mm for ABB, Legrand, Schneider Electric
- 70 x 15 mm for Legrand, Schneider Electric

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME
• THERMOMARK CARD 2.0 • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

Ordering data

Description	Color
UniSheet , with self-adhesive plastic labels, 0.5 mm thick	
88-section, lettering field size: 8.8 x 15 mm	white
	yellow
	red
	silver
135-section, lettering field size: 11 x 9 mm	white
	yellow
	silver
189-section, lettering field size: 15 x 5 mm	white
	yellow
	silver
114-section, lettering field size: 17 x 7 mm	white
	yellow
	silver
54-section, lettering field size: 17 x 15 mm	white
54-section, lettering field size: 17 x 15 mm	white
	yellow
	silver
75-section, lettering field size: 20 x 9 mm	white
	yellow
	silver
24-section, lettering field size: 22 x 22 mm	white
	yellow
	silver
51-section, lettering field size: 27 x 8 mm	white
	yellow
	red
30-section, lettering field size: 27 x 12.5 mm	white
	yellow
	silver
27-section, lettering field size: 27 x 15 mm	white
	yellow
	red
21-section, lettering field size: 27 x 18 mm	white
	yellow
	red
	white
	yellow
	silver

Type	Order No.	Pcs./Pkt.
US-EMLP (8,8X15)	0830303	10
US-EMLP (8,8X15) YE	0830316	10
US-EMLP (8,8X15) RD	0830318	10
US-EMLP (8,8X15) SR	0830317	10
US-EMLP (11X9)	0828789	10
US-EMLP (11X9) YE	0828871	10
US-EMLP (11X9) SR	0828872	10
US-EMLP (15X5)	0828790	10
US-EMLP (15X5) YE	0828873	10
US-EMLP (15X5) SR	0828874	10
US-EMLP (17X7)	0828792	10
US-EMLP (17X7) YE	0828877	10
US-EMLP (17X7) SR	0828878	10
US-EMLP (17X15)	0828793	10
US-EMLP (17,5X15)	0830839	10
US-EMLP (17X15) YE	0828879	10
US-EMLP (17X15) SR	0828880	10
US-EMLP (20X9)	0828795	10
US-EMLP (20X9) YE	0828883	10
US-EMLP (20X9) SR	0828884	10
US-EMLP (22X22)	0828796	10
US-EMLP (22X22) YE	0828885	10
US-EMLP (22X22) SR	0828886	10
US-EMLP (27X8)	0828797	10
US-EMLP (27X8) YE	0828889	10
US-EMLP (27X8) RD	0804447	10
US-EMLP (27X8) SR	0828890	10
US-EMLP (27X12,5)	0828798	10
US-EMLP (27X12,5) YE	0828891	10
US-EMLP (27X12,5) SR	0828892	10
US-EMLP (27X15)	0828799	10
US-EMLP (27X15) YE	0828893	10
US-EMLP (27X15) RD	0804448	10
US-EMLP (27X15) SR	0828894	10
US-EMLP (27X18)	0828800	10
US-EMLP (27X18) YE	0828895	10
US-EMLP (27X18) RD	0804449	10
US-EMLP (27X18) SR	0828896	10

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Adapter plate for BLUEMARK ID, for accommodating US materials

Accessories

TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

Stick-on UniSheet equipment marking

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FOR YOU



Unmarked or marked according to customer specifications

General data		Technical data		
Can be marked with		BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME • THERMOMARK CARD 2.0 • THERMOMARK CARD		
Material		PVC		
Flammability rating in accordance with UL 94		V0		
Temperature range		-30 ... 80		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
UniSheet , with self-adhesive plastic labels, 0.5 mm thick				
15-section, lettering field size: 27 x 27 mm	white	US-EMLP (27X27)	0828801	10
	yellow	US-EMLP (27X27) YE	0828897	10
	silver	US-EMLP (27X27) SR	0828898	10
45-section, lettering field size: 35 x 9 mm	white	US-EMLP (35X9)	0828802	10
	yellow	US-EMLP (35X9) YE	0828899	10
	silver	US-EMLP (35X9) SR	0829430	10
27-section, lettering field size: 35 x 15 mm	white	US-EMLP (35X15)	0830300	10
	yellow	US-EMLP (35X15) YE	0830319	10
	red	US-EMLP (35X15) RD	0830321	10
	silver	US-EMLP (35X15) SR	0830320	10
28-section, lettering field size: 40 x 10 mm	white	US-EMLP (40X10)	0830341	10
	yellow	US-EMLP (40X10) YE	0830342	10
	silver	US-EMLP (40X10) SR	0830328	10
18-section, lettering field size: 49 x 15 mm	white	US-EMLP (49X15)	0828803	10
	yellow	US-EMLP (49X15) YE	0828901	10
	silver	US-EMLP (49X15) SR	0828902	10
16-section, lettering field size: 52.5 x 15 mm	white	US-EMLP (52,5X15)	0830301	10
	yellow	US-EMLP (52,5X15) YE	0830322	10
	red	US-EMLP (52,5X15) RD	0830324	10
	silver	US-EMLP (52,5X15) SR	0830323	10
9-section, lettering field size: 60 x 15 mm	white	US-EMLP (60X15)	0828804	10
	yellow	US-EMLP (60X15) YE	0828903	10
	silver	US-EMLP (60X15) SR	0828904	10
4-section, lettering field size: 60 x 30 mm	white	US-EMLP (60X30)	0828805	10
	yellow	US-EMLP (60X30) YE	0828905	10
	blue	US-EMLP (60X30) BU	0804282	10
	red	US-EMLP (60X30) RD	0804283	10
	silver	US-EMLP (60X30) SR	0828906	10
8-section, lettering field size: 70 x 15 mm	white	US-EMLP (70X15)	0830302	10
	yellow	US-EMLP (70X15) YE	0830325	10
	red	US-EMLP (70X15) RD	0830327	10
	silver	US-EMLP (70X15) SR	0830326	10
2-section, lettering field size: 85.6 x 54 mm	white	US-EMLP (85,6X54)	0828806	10
	yellow	US-EMLP (85,6X54) YE	0828907	10
	red	US-EMLP (85,6X54) RD	0830841	10
	silver	US-EMLP (85,6X54) SR	0828908	10
2-section, lettering field size: 100 x 60 mm	white	US-EMLP (100X60)	0828807	10
	yellow	US-EMLP (100X60) YE	0828909	10
	silver	US-EMLP (100X60) SR	0828910	10
1-section, lettering field size: 104 x 135 mm	white	US-EMLP (104X135)	0830304	10
	yellow	US-EMLP (104X135) YE	0830305	10
	silver	US-EMLP (104X135) SR	0830306	10
Accessories				
Adapter plate for BLUEMARK ID, for accommodating US materials		BM ID-ADAPTER PLATE-US	1044355	1

Equipment marking

UniSheet equipment marking for sticking onto rough or textured surfaces



Can be marked using:



UV LED technology



Thermal transfer



Unmarked or marked according to customer specifications

- The US-EMLP-HA ... UniSheet marking range has excellent adhesive properties, thanks to its special adhesive. Particularly on rough, textured, and low-energy surfaces
- The self-adhesive plastic labels for button markings have two marking areas. There is a choice of two marking areas or one of both. The marking areas that are not necessary can be easily removed by snapping off
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME
• THERMOMARK CARD 2.0 • THERMOMARK CARD
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Technical data

Ordering data

Description	Color
UniSheet , with self-adhesive plastic labels, 0.5 mm thick	
108-section, lettering field size: 17 x 7 mm	white
70-section, lettering field size: 20 x 9 mm	white
4-section, lettering field size: 60 x 30 mm	white
4-section, lettering field size: 60 x 30 mm	silver
2-section, lettering field size: 85.6 x 54 mm	white
2-section, lettering field size: 85.6 x 54 mm	silver
UniSheet , with self-adhesive plastic labels for button markings, 0.5 mm thick, 6-section, 2 lettering field sizes: 30 x 18 mm and 30 x 8 mm	
	white
	silver
6-section, 2 lettering field sizes: 30 x 15 mm and 30 x 12.5 mm	white
	silver
4-section, lettering field size: 45 x 10 mm	white
4-section, lettering field size: 45 x 10 mm	silver

Type	Order No.	Pcs./Pkt.
US-EMLP-HA (17X7)	0830988	10
US-EMLP-HA (20X9)	0830989	10
US-EMLP-HA (60X30)	0830990	10
US-EMLP-HA (60X30) SR	0830991	10
US-EMLP-HA (85,6X54)	0830992	10
US-EMLP-HA (85,6X54) SR	0830993	10
US-EMLP-HA 24 (30X18/8)	0803876	10
US-EMLP-HA 24 (30X18/8) SR	0803877	10
US-EMLP-HA 24 (30X15/12,5)	0803874	10
US-EMLP-HA 24 (30X15/12,5) SR	0803875	10
US-EMLP-HA 30 (45X10)	0803878	10
US-EMLP-HA 30 (45X10) SR	0803879	10

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Adapter plate for BLUEMARK ID, for accommodating US materials

Accessories

TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1



UniSheet equipment marking for snapping into marker carriers



Can be marked using:



UV LED technology



Thermal transfer

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Unmarked or marked according to
customer specifications

- The US-EMP ... UniSheet marking range includes markers that can be fitted into existing CARRIER EMP ... label frames
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

Notes:

For corresponding label frames, see page 348.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME

• THERMOMARK CARD 2.0 • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

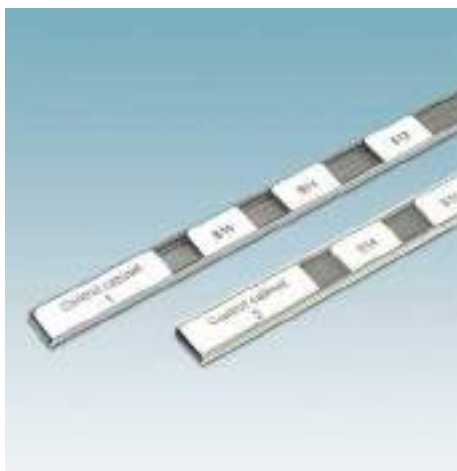
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniSheet , just 0.5 mm thick				
54-section, lettering field size: 17 x 15 mm	white	US-EMP (17X15)	0828774	10
	yellow	US-EMP (17X15) YE	0828842	10
	silver	US-EMP (17X15) SR	0828843	10
70-section, lettering field size: 20 x 9 mm	white	US-EMP (20X9)	0829439	10
1 UniSheet = 84 labels	white	US-EMP (25X6)-1	0802754	10
84-section, lettering field size: 26 x 6 mm	white	US-EMP (25X6)	0829435	10
51-section, lettering field size: 27 x 8 mm	white	US-EMP (27X8)	0828775	10
	yellow	US-EMP (27X8) YE	0828844	10
	silver	US-EMP (27X8) SR	0828845	10
30-section, lettering field size: 27 x 12.5 mm	white	US-EMP (27X12,5)	0828776	10
	yellow	US-EMP (27X12,5) YE	0828846	10
	silver	US-EMP (27X12,5) SR	0828847	10
27-section, lettering field size: 27 x 15 mm	white	US-EMP (27X15)	0828777	10
	yellow	US-EMP (27X15) YE	0828848	10
	silver	US-EMP (27X15) SR	0828849	10
21-section, lettering field size: 27 x 18 mm	white	US-EMP (27X18)	0828778	10
	yellow	US-EMP (27X18) YE	0828850	10
	silver	US-EMP (27X18) SR	0828851	10
15-section, lettering field size: 27 x 27 mm	white	US-EMP (27X27)	0828779	10
	yellow	US-EMP (27X27) YE	0828852	10
	silver	US-EMP (27X27) SR	0828853	10
21-section, lettering field size: 27.9 x 17.4 mm		US-EMP (27,9X17,4)	0830980	10
	silver	US-EMP (27,9X17,4) SR	0803300	10
1 UniSheet = 48 labels	white	US-EMP (29X8)	0829436	10
	yellow	US-EMP (29X8) YE	0829440	10
42-section, lettering field size: 35 x 9 mm	white	US-EMP (35X9)	0830842	10
	yellow	US-EMP (35X9) YE	0830843	10
	silver	US-EMP (35X9) SR	0830844	10
1 UniSheet = 16 labels	white	US-EMP (40X17)	0829437	10
1 UniSheet = 40 labels, lettering field size: 44 x 7 mm	white	US-EMP (44X7)	0829438	10
18-section, lettering field size: 49 x 15 mm	white	US-EMP (49X15)	0828780	10
	yellow	US-EMP (49X15) YE	0828854	10
	silver	US-EMP (49X15) SR	0828855	10
1 UniSheet = 9 labels	white	US-EMP (60X15)	0828781	10
	yellow	US-EMP (60X15) YE	0828856	10
	silver	US-EMP (60X15) SR	0828857	10
4-section, lettering field size: 60 x 30 mm	white	US-EMP (60X30)	0828782	10
	yellow	US-EMP (60X30) YE	0828858	10
	silver	US-EMP (60X30) SR	0828859	10
2-section, lettering field size: 85.6 x 54 mm	white	US-EMP (85,6X54)	0828783	10
	yellow	US-EMP (85,6X54) YE	0828860	10
	silver	US-EMP (85,6X54) SR	0828861	10
9-section, lettering field size: 100 x 15 mm	white	US-EMP (100X15)	0829521	10
	yellow	US-EMP (100X15) YE	0829522	10
	silver	US-EMP (100X15) SR	0829523	10

Equipment marking

UniSheet equipment marking for snapping into marker carriers



The US-EMP ... UniSheet equipment markers can be easily snapped into the CARRIER(L)-EMP (1000X15) ... marking profiles. They have the following advantages and ideal for:

- Equipment marking
- Module marking
- Switchgear marking
- The labels are available in different sizes corresponding to common device pitch measurements
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

Marking of circuit breakers, for example:

- 8.8 x 15 mm for ABB, Schneider Electric
- 17 x 15 mm for ABB, Hager, Legrand
- 35 x 15 mm for ABB, Legrand, Schneider Electric
- 52.5 x 15 mm for ABB, Legrand, Schneider Electric
- 70 x 15 mm for Legrand, Schneider Electric

Can be marked using:



UV LED technology



Thermal transfer



Unmarked or marked according to customer specifications

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME

• THERMOMARK CARD 2.0 • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Ordering data

Description	Color
UniSheet , 0.5 mm thick, can be marked with THERMOMARK CARD	
88-section, lettering field size: 8.8 x 15 mm	white yellow red silver
54-section, lettering field size: 17 x 15 mm	white yellow silver
27-section, lettering field size: 27 x 15 mm	white yellow silver
24-section, lettering field size: 35 x 15 mm	white yellow red silver
18-section, lettering field size: 49 x 15 mm	white yellow silver
16-section, lettering field size: 52.5 x 15 mm	white yellow red silver
1 UniSheet = 9 labels	white yellow silver
8-section, lettering field size: 70 x 15 mm	white yellow red silver
9-section, lettering field size: 100 x 15 mm	white yellow silver

Type	Order No.	Pcs./Pkt.
US-EMP (8,8X15)	0830293	10
US-EMP (8,8X15) YE	0830426	10
US-EMP (8,8X15) RD	0830428	10
US-EMP (8,8X15) SR	0830427	10
US-EMP (17X15)	0828774	10
US-EMP (17X15) YE	0828842	10
US-EMP (17X15) SR	0828843	10
US-EMP (27X15)	0828777	10
US-EMP (27X15) YE	0828848	10
US-EMP (27X15) SR	0828849	10
US-EMP (35X15)	0830295	10
US-EMP (35X15) YE	0830307	10
US-EMP (35X15) RD	0830309	10
US-EMP (35X15) SR	0830308	10
US-EMP (49X15)	0828780	10
US-EMP (49X15) YE	0828854	10
US-EMP (49X15) SR	0828855	10
US-EMP (52,5X15)	0830296	10
US-EMP (52,5X15) YE	0830310	10
US-EMP (52,5X15) RD	0830312	10
US-EMP (52,5X15) SR	0830311	10
US-EMP (60X15)	0828781	10
US-EMP (60X15) YE	0828856	10
US-EMP (60X15) SR	0828857	10
US-EMP (70X15)	0830297	10
US-EMP (70X15) YE	0830313	10
US-EMP (70X15) RD	0830315	10
US-EMP (70X15) SR	0830314	10
US-EMP (100X15)	0829521	10
US-EMP (100X15) YE	0829522	10
US-EMP (100X15) SR	0829523	10

Profile, for screwing or riveting, 1000 mm long, for accommodating UCT-... / UC-... / US-... / EMT ... and EMP-AL material with 15 mm height

gray
transparent

Profile, self-adhesive, 1000 mm long, for accommodating UCT-... / UC-... / US-... / EMT ... and EMP-AL ... material with 15 mm height

gray
transparent

CARRIER cover, 1000 mm long

transparent

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Accessories

CARRIER-EMP (1000X15) GY	0829366	25
CARRIER-EMP (1000X15) TR	0829530	25
CARRIER/L-EMP (1000X15) GY	0829559	25
CARRIER/L-EMP (1000X15) TR	0829560	25
CARRIER-EMP (1000X15) COVER	0829520	25
TMP-US-MAG1	0803341	1

UniSheet equipment marking for screwing or riveting

Can be marked using:



UV LED technology



Thermal transfer



Unmarked or marked according to
customer specifications



- The US-EMSP ... UniSheet marking range includes markers that can be attached using screws or rivets
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

Notes:

For corresponding rivet for fixing the US-EMSP ..., see page 397.

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME

• THERMOMARK CARD 2.0 • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

Ordering data

Description	Color
UniSheet , 0.5 mm thick, with mounting holes 3.2 mm in diameter	
4-section, lettering field size: 50 x 30 mm	white
	yellow
	silver
2-section, lettering field size: 75.6 x 54 mm	white
	yellow
	silver
2-section, lettering field size: 90 x 60 mm	white
	yellow
	silver
	red
	blue

Type	Order No.	Pcs./Pkt.
US-EMSP (50X30)	0828786	10
US-EMSP (50X30) YE	0828927	10
US-EMSP (50X30) SR	0828928	10
US-EMSP (75,6X54)	0828787	10
US-EMSP (75,6X54) YE	0828929	10
US-EMSP (75,6X54) SR	0828930	10
US-EMSP (90X60)	0828788	10
US-EMSP (90X60) YE	0828931	10
US-EMSP (90X60) SR	0828932	10
US-EMSP (90X60) RD	0802937	10
US-EMSP (90X60) BU	0803038	10

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Adapter plate for BLUEMARK ID, for accommodating US materials

Accessories

TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

Equipment marking

UniSheet equipment marking for sticking on and additional screwing or riveting



- The US-EMLSP ... UniSheet marking range includes adhesive markers which can also be attached with screws or rivets
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

Notes:

For corresponding rivet for fixing the UC-EMLSP ..., see page 397.

Drilling diagrams can be found at phoenixcontact.net/products

Can be marked using:



UV LED technology



Thermal transfer

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Unmarked or marked according to customer specifications

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME

• THERMOMARK CARD 2.0 • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

Ordering data

Description	Color
UniSheet, with self-adhesive plastic labels, mounting holes 3.2 mm in diameter, 0.5 mm thick	
Lettering field size: 28 x 10 mm	white yellow silver

Type	Order No.	Pcs./Pkt.
US-EMLSP (28X10)	0830343	10
US-EMLSP (28X10) YE	0830344	10
US-EMLSP (28X10) SR	0830329	10

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Adapter plate for BLUEMARK ID, for accommodating US materials

Accessories

Type	Order No.	Pcs./Pkt.
TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

UniSheet equipment marking, stick-on labels

Can be marked using:



Thermal transfer



- The US-EMT ... UniSheet marking range includes markers for easy marking of Siemens controllers. The US-EMT markers can be easily separated from the card. The markers can be firmly mounted in the marking area by simply inserting them.
- The PROJECT complete software includes templates for easily marking the different inputs and outputs.
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively
- The pre-perforated markers are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

General data

Can be marked with

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK PRIME • THERMOMARK CARD 2.0 •

THERMOMARK CARD

Polyester

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniSheet, insert label				
7-section, lettering field size: 103 x 17 mm	white	US-EMT (103X17)	0803846	10
	turquoise	US-EMT (103X17) TQ	0803847	10
5-section, lettering field size: 103 x 23 mm	white	US-EMT (103X23)	0803856	10
	turquoise	US-EMT (103X23) TQ	0803857	10
8-section, lettering field size: 13 x 109 mm	white	US-EMT (13X109)	0803862	10
	gray	US-EMT (13X109) GY	0803864	10
	turquoise	US-EMT (13X109) TQ	0803865	10
	yellow	US-EMT (13X109) YE	0803863	10
4-section, lettering field size: 23 x 109 mm	white	US-EMT (23X109)	0803858	10
	gray	US-EMT (23X109) GY	0803860	10
	turquoise	US-EMT (23X109) TQ	0803861	10
	yellow	US-EMT (23X109) YE	0803859	10
30-section, lettering field size: 31 x 12.57 mm	white	US-EMT (31X12,5)	0803848	10
	gray	US-EMT (31X12,5) GY	0803850	10
	yellow	US-EMT (31X12,5) YE	0803849	10
10-section, 2 lettering field sizes: 50 x 13 mm and 28 x 13 mm	white	US-EMT (50/28X13)	0803853	10
	turquoise	US-EMT (50/28X13) TQ	0803855	10
10-section, lettering field size: 50 x 26 mm	white	US-EMT (50X26)	0803851	10
	turquoise	US-EMT (50X26) TQ	0803852	10

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Accessories

Type	Order No.	Pcs./Pkt.
TMP-US-MAG1	0803341	1

Equipment marking

UniSheet equipment marking, stick-on labels

Can be marked using:



UV LED technology



Thermal transfer



Unmarked or marked according to customer specifications

- The US-EML ... UniSheet marking range includes markers for marking equipment in switchgear and systems manufacturing
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively
- The perforated markers and labels are easy to separate and can be easily fitted
- When used in conjunction with high-quality ink ribbons, they result in a highly resistant form of marking that is suitable for harsh environments
- The sheets provide space for including function texts
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME
• THERMOMARK CARD 2.0 • THERMOMARK CARD
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniSheet , with self-adhesive labels		US-EML (15X6)	0803816	10
132-section, lettering field size: 15 x 6 mm	white	US-EML (15X6) YE	0803817	10
	yellow	US-EML (15X9)	0803811	10
84-section, lettering field size: 15 x 9 mm	white	US-EML (15X9) YE	0803813	10
130-section, lettering field size: 16.5 x 5 mm	yellow	US-EML (16,5X5) YE	0803815	10
	yellow	US-EML (16X7) YE	0803819	10
90-section, lettering field size: 16 x 7 mm	white	US-EML (17,5X8)	0800461	10
80-section, lettering field size: 17.5 x 8 mm	yellow	US-EML (17,5X8) YE	0800463	10
	yellow	US-EML (20X8)	0800458	10
1 UniSheet = 64 labels, lettering field size: 20 x 8 mm	white	US-EML (20X8) YE	0800460	10
	yellow	US-EML (104X3,8)	0800464	10
34-section, lettering field size: 104 x 3.8 mm	white	US-EML (104X140)	0800465	10
	white	US-EML (104X140) YE	0800467	10
1-section, lettering field size: 104 x 140 mm	yellow	US-EML (104X140) SR	0800466	10
	silver	US-EML (D12,5)	0803823	10
UniSheet , with self-adhesive labels, 56-section, lettering field size: diameter 12.5 mm	white	US-EML (D39)	0803822	10
6-section, lettering field size: diameter 39 mm	white			

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Adapter plate for BLUEMARK ID, for accommodating US materials

Accessories

TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

UniSheet equipment marking, stick-on labels



Can be marked using:



UV LED technology



Thermal transfer



Unmarked or marked according to customer specifications

The unmarked US-EMLF ... combi labels in card format allow you to create custom information signs. A wide range of symbols conforming to ISO 7010 are available in the PROJECT complete software.

- High adhesive strength
- Suitable for indoor and outdoor use
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and inexpensively
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The perforated markers are easy to separate
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many UniSheet markers according to your requirements

General data

Can be marked with

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME
• THERMOMARK CARD 2.0 • THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniSheet , with self-adhesive labels		US-EMLF (15X6) YE	0803832	10
132-section, lettering field size: 15 x 6 mm	yellow	US-EMLF (15X9) YE	0803828	10
84-section, lettering field size: 15 x 9 mm	yellow	US-EMLF (16,5X5) YE	0803830	10
130-section, lettering field size: 16.5 x 5 mm	yellow	US-EMLF (16X7) YE	0803834	10
90-section, lettering field size: 16 x 7 mm	yellow	US-EMLF (17,5X8) YE	0803836	10
80-section, lettering field size: 17.5 x 8 mm	yellow	US-EMLF (20X8) YE	0803842	10
64-section, lettering field size: 20 x 8 mm	yellow	US-EMLF (104X70)	1014294	10
2-section, lettering field size: 104 x 70 mm	white	US-EMLF (104X70) YE	1014295	10
	yellow	US-EMLF (104X70) BU	1014296	10
	blue	US-EMLF (104X140)	1014291	10
1-section, lettering field size: 104 x 140 mm	white	US-EMLF (104X140) YE	1014292	10
	yellow	US-EMLF (104X140) BU	1014293	10
	blue	US-EMLF (D39)	0803845	10
UniSheet , with self-adhesive labels, 6-section, lettering field size: 39 mm in diameter	white			

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Adapter plate for BLUEMARK ID, for accommodating US materials

Accessories

TMP-US-MAG1	0803341	1
BM ID-ADAPTER PLATE-US	1044355	1

Marking and labeling – MARKING system

Equipment marking

Stick-on equipment marking

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to customer specifications, white



- The EML ... self-adhesive equipment markers are particularly suitable for marking various types of equipment in controller, systems, and control cabinet manufacturing
- When combined with the right ink ribbon, the marking is highly resistant to chemical and mechanical influences, and can also be used under harsh industrial conditions
- In the case of high-quality ink ribbons, the marking is resistant to solvents and suitable for use even under harsh industrial conditions.
- The EML ... materials are UL-listed
- Marking service: Phoenix Contact can custom-mark many EML ... labels according to your requirements
- **Designation example:**
EML (10x4)R
Lettering field width: 10 mm
Lettering field height: 4 mm
Type of packaging: roll

Notes:

Additional label sizes can be found in the product area on our website at phoenixcontact.net/products



General data

Can be marked with

Material
Temperature range
Wipe resistance
Components

[°C]

THERMOMARK ROLLMARKER 300 • THERMOMARK ROLLMARKER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Labels, can be marked with a thermal transfer printer				
1 roll = 10,000 labels	white	EML (10X4)R	0815583	1
1 roll = 10,000 labels	white	EML (10X7)R	0816663	1
1 roll = 2500 labels	white	EML (15X6)R	0803275	1
1 roll = 2500 labels	white	EML (15X9)R	0815677	1
1 roll = 2500 labels	white	EML (16,5X5)R	0816702	1
1 roll = 10,000 labels	white	EML (16X7)R	0818001	1
1 roll = 2500 labels	white	EML (17,5X8)R	0816744	1
1 roll = 2500 labels	white	EML (19X6)R	0816760	1
1 roll = 2500 labels	yellow			
1 roll = 2500 labels	white	EML (20X8)R	0816786	1
1 roll = 1000 labels	white	EML (20X8)R/TL	0802999	1
1 roll = 2500 labels	silver/matt			
1 roll = 2500 labels	white	EML (24X3)R	0830291	1
1 roll = 1000 labels	white	EML (24X4)R	0800061	1
1 roll = 2500 labels	white			
1 roll = 2500 labels	white	EML (25,4X12,7)R	0816825	1
1 roll = 2500 labels	silver/matt			
1 roll = 2500 labels	silver/matt			
1 roll = 2500 labels	yellow			
1 roll = 2500 labels	silver/matt			
1 roll = 2500 labels	silver/matt			
1 roll = 1000 labels	white	EML (30X20)R	0816922	1
1 roll = 1500 labels	yellow			
1 roll = 1000 labels	white	EML (36X25)R	0803136	1
1 roll = 2500 labels	white	EML (38X17)R	0816951	1
1 roll = 2500 labels	white	EML (40X6)R	0830481	1
1 roll = 1000 labels	white			
1 roll = 1000 labels	white	EML (40X8)R	0816980	1
1 roll = 1000 labels	silver/matt			
1 roll = 1000 labels	white	EML (40X25)R	0818027	1
1 roll = 1000 labels	white	EML (47X22)R	0803907	1
1 roll = 2500 labels	white	EML (50X10)R	0830483	1
1 roll = 1000 labels	white	EML (51X25)R	0817028	1
1 roll = 1000 labels	white	EML (70X32)R	0817060	1
1 roll = 400 labels	white	EML (70X50)R	0817099	1
1 roll = 2500 labels	white	EML (75X10)R	0830485	1
1 roll = 1000 labels	white	EML (80X20)R	0803138	1
1 roll = 2500 labels	white	EML (90X5)R	0817109	1
1 roll = 1000 labels	white			
1 roll = 500 labels	yellow	EML (105X23)R	0803137	1
1 roll = 300 labels	white	EML (100X73)R	0817125	1
1 roll = 300 labels	white	EML (100X40)R	0800286	1
1 roll = 250 labels	white	EML (100X90)R	0817154	1

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110 5145384 1

PRINTED
FOR YOU



Unmarked or marked according to customer specifications, yellow

PRINTED
FOR YOU



Unmarked or marked according to customer specifications, silver



Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
EML (10X7)R YE	0816676	1
EML (15X6)R YE	0819288	1
EML (15X9)R YE	0816045	1
EML (16,5X5)R YE	0816728	1
EML (16X7)R YE	0816731	1
EML (17,5X8)R YE	0816757	1
EML (19X6)R YE	0800107	1
EML (20X7)R YE	0816773	1
EML (20X8)R YE	0816799	1
EML (24X4)R YE	0803683	1
EML (25,4X12,7)R YE	0816838	1
EML (26,5X17,5)R YE	0816896	1
EML (30X20)R YE	0816935	1
EML (32X25)R YE	0800020	1
EML (40X6)R YE	0830482	1
EML (40X8)R YE	0803712	1
EML (40X25)R YE	0816977	1
EML (50X10)R YE	0830484	1
EML (51X25)R YE	0817031	1
EML (70X32)R YE	0817073	1
EML (75X10)R YE	0830486	1
EML (100X30)R YE	0801816	1
EML (100X73)R YE	0817138	1

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
EML (15X9)R SR	0816032	1
EML (21,5X21,5)R SR	0816812	1
EML (26,5X7,5)R SR	0816841	1
EML (26,5X12)R SR	0816854	1
EML (26,5X17,5)R SR	0816883	1
EML (26,5X18,5)R SR	0816906	1
EML (26,5X26,5)R SR	0816919	1
EML (40X15)R SR	0815729	1
EML (51X25)R SR	0817002	1
EML (70X32)R SR	0817057	1
EML (70X50)R SR	0817086	1
EML (100X73)R SR	0817112	1
EML (100X40)R SR	0802697	1
EML (100X90)R SR	0817141	1

Accessories

THERMOMARK-RIBBON 110	5145384	1

Accessories

THERMOMARK-RIBBON 110	5145384	1

Equipment marking

Stick-on equipment marking

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to customer specifications, transparent and white

- The EML ... self-adhesive equipment markers are particularly suitable for marking various types of equipment in controller, systems, and control cabinet manufacturing
- When combined with the right ink ribbon, the marking is highly resistant to chemical and mechanical influences, and can also be used under harsh industrial conditions
- In the case of high-quality ink ribbons, the marking is resistant to solvents and suitable for use even under harsh industrial conditions.
- The EML ... materials are UL-listed
- Marking service: Phoenix Contact can custom-mark many EML ... labels according to your requirements
- **Designation example:**
EML (16,5x5)RL
Lettering field width: 16.5 mm
Lettering field height: 5 mm
Type of packaging: large roll

Notes:

If processing large rolls with the THERMOMARK ROLL or THERMOMARK ROLL 2.0, use the THERMOMARK ROLL-ERH external media hub. See printers, page 40.



General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description

Labels , on a large roll, can be marked with a thermal transfer printer	
1 roll = 10,000 labels	yellow
1 roll = 1000 labels	yellow
1 roll = 10,000 labels	white
1 roll = 10,000 labels	yellow
1 roll = 10,000 labels	yellow
1 roll = 10,000 labels	yellow
1 roll = 1000 labels	white
1 roll = 10,000 labels	yellow

1 roll = 10,000 labels	white
1 roll = 10,000 labels	white
1 roll = 3000 labels	white
1 roll = 3000 labels	white

Labels, on a large roll, can be marked with a thermal transfer printer

1 roll = 20,000 labels

Labels, round, 17.5 mm in diameter

1 roll = 2500 labels

Labels as standard, large roll and continuous label, color: transparent, can be marked with a thermal transfer printer

1 roll = 2500 labels	transparent
1 roll = 90 m continuous, height: 37 mm	transparent
1 roll = 1000 labels	transparent

Continuous labels, can be marked with thermal transfer printers, can be separated with a cutter, pitch as desired, strip length up to 1000 mm

1 roll = 40 m continuous, height: 20 mm	white
1 roll = 40 m continuous, height: 40 mm	white
1 roll = 40 m continuous, height: 60 mm	white
1 roll = 40 m continuous, height: 70 mm	white
1 roll = 40 m continuous, height: 110 mm	white

Labels, on a large roll, can be marked with a thermal transfer printer

1 roll = 90 m continuous, height: 100 mm

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
EML (16,5X5)RL	0816113	1
EML (19X6)RL	1060223	1
EML (25,4X12,7)RL	0816087	1
EML (38,1X19)RL	0816171	1
EML (50,8X25,4)RL	0816184	1
EML (69,8X31,8)RL	0816197	1
EML (20X8)RXL	0802762	1
EML (D17,5)R	0815774	1
EML (25,4X12,7)R TR	0801841	1
EML (37XE)RL TR	0815716	1
EML (51X12,5)R TR	0815745	1
EML (20XE)R	0803452	1
EML (40XE)R	0804540	1
EML (60XE)R	0804542	1
EML (70XE)R	0803438	1
EML (110XE)R	0815596	1

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1

Equipment marking

Stick-on equipment marking

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

The EMLP ...self-adhesive markers are particularly suitable for marking electrical components, devices, and buttons.

- The markers meet the same standards as the engraved labels and have a high-quality look
- Quick and cost-effective marking with THERMOMARK ROLL ... printers from Phoenix Contact
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many EMLP ... markers according to your requirements
- **Designation example:**
EMLP (13x9)R
Lettering field width: 13 mm
Lettering field height: 9 mm
Type of packaging: roll

General data

Can be marked with

Material
Temperature range
Wipe resistance
Components

[°C]

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Labels, can be marked with a thermal transfer printer				
1 roll = 500 labels	white	EMLP (13X9)R	0819453	1
1 roll = 500 labels	white	EMLP (17X7)R	0826844	1
1 roll = 500 labels	white	EMLP (17,5X12)R	0819466	1
1 roll = 3000 labels	white	EMLP (17,5X15)R	0802684	1
1 roll = 500 labels	white	EMLP (20X7)R	0819479	1
1 roll = 500 labels	white	EMLP (20X8)R	0819482	1
1 roll = 500 labels	white	EMLP (22X12)R	0819495	1
1 roll = 500 labels	white	EMLP (27X12,5)R	0804488	1
1 roll = 500 labels	white	EMLP (45X15)R	0801820	1
1 roll = 500 labels	white	EMLP (45X25)R	0802727	1
1 roll = 250 labels	white	EMLP (60X30)R	0819505	1
1 roll = 500 labels	white	EMLP (65X25)R	0802728	1
1 roll = 3000 labels	silver	EMLP (17,5X15)R SR	0802685	1
1 roll = 500 labels	silver	EMLP (22X22)R SR	0825528	1
1 roll = 500 labels	silver	EMLP (27X8)R SR	0819518	1
1 roll = 500 labels	silver	EMLP (27X12,5)R SR	0819521	1
1 roll = 500 labels	silver	EMLP (27X18)R SR	0819534	1
1 roll = 500 labels	silver	EMLP (27X27)R SR	0827467	1
1 roll = 500 labels	silver	EMLP (45X15)R SR	0819547	1
1 roll = 250 labels	silver	EMLP (60X30)R SR	0801729	1
1 roll = 250 labels	blue	EMLP (60X30)R BU	0804275	1
1 roll = 250 labels	red	EMLP (60X30)R RD	0804276	1
Diameter: 30 mm				
1 roll = 500 labels, diameter: 30 mm	white	EMLP (D30)R RD	0803437	1

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Ink ribbon for roll printer and THERMOMARK CARD, ink color: white, length: 60 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1
TM-RIBBON 110 WH 100	0804661	1

Equipment marking

Stick-on equipment marking, continuous



The EMLP (Ex...)R ... self-adhesive continuous markers are particularly suitable for marking miniature circuit breakers and housing covers in service panels

- The markers meet the same standards as the engraved labels and have a high-quality look
- Exact marking with the PROJECT complete marking software
- Quick and cost-effective marking with THERMOMARK ROLL ... printers from Phoenix Contact
- The thermal transfer printer cutting units make it possible to quickly and cleanly trim equipment markings precisely to the required length
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many EMLP ... markers according to your requirements
- **Designation example:**
EMLP (Ex15)R
 Lettering field length: continuous
 Lettering field height: 15 mm
 Type of packaging: roll

Notes:

¹⁾ EMLP (Ex30)R ... can only be cut with the perforation cutter of the THERMOMARK ROLLMASTER or THERMOMARK X1.2.

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

General data

Can be marked with

Material
 Temperature range
 Wipe resistance
 Components

[°C]

Description

Color

Continuous labels, can be marked with thermal transfer printers, strip length up to 1000 mm,
 1 roll = 20 m continuous, height: 15 mm

white
 silver
 yellow
 black
 blue
 red

Continuous labels, can be marked with thermal transfer printers, strip length up to 1000 mm,¹⁾

1 roll = 20 m continuous, height: 30 mm

white
 silver
 red

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Ink ribbon for roll printer and THERMOMARK CARD, ink color: white, length: 60 m, width: 110 mm

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
 -40 ... 120
 DIN EN 61010-1 (VDE 0411-1)
 Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
EMLP (EX15)R	0802686	1
EMLP (EX15)R SR	0802687	1
EMLP (EX15)R YE	0803276	1
EMLP (EX15)R BK	0803279	1
EMLP (EX15)R BU	0803277	1
EMLP (EX15)R RD	0803280	1
EMLP (EX30)R	0802688	1
EMLP (EX30)R SR	0802689	1
EMLP (EX30)R BU	0804281	1
EMLP (EX30)R RD	0803436	1

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1
TM-RIBBON 110 WH 100	0804661	1

Stick-on equipment marking, for 24 mm buttons



Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to
customer specifications

- The EMLP 24 ... and EMLP 30 ... self-adhesive markers are particularly suitable for marking electrical buttons and indicator lamps on consoles or control cabinets
- The markers meet the same standards as the engraved labels and have a high-quality look
- Quick and cost-effective marking with THERMOMARK ROLL ... printers from Phoenix Contact
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many EMLP ... markers according to your requirements
- **Designation example:**
EMLP 24 (30x12)R
Hole diameter: 24 mm
Lettering field width: 30 mm
Lettering field height: 12 mm
Type of packaging: roll

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
Continuous labels, for 24 mm and 30 mm buttons, can be marked with thermal transfer printers	
1 roll = 500 labels	white
1 roll = 500 labels	silver
Markers for 30 mm buttons, can be marked with thermal transfer printers	
1 roll = 500 labels	white
1 roll = 500 labels	yellow

Ink ribbon for roll printer, ink color: black, length: 300 m,
width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m,
width: 110 mm

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
EMLP 24 (30X12)R	0819550	1
EMLP 24 (30X12)R SR	0819563	1
EMLP 30 (45X10)R	0801855	1
EMLP 30 (45X10)R YE	0801857	1

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1

Marking and labeling – MARKING system

Equipment marking

Highly flexible PVC stick-on equipment marking



The EMLF label consists of soft, highly flexible PVC film that molds itself to uneven surfaces.

- Outdoor-durable for up to eight years when subject to a temperature range of -40°C to 90°C
- Extremely high-quality appearance
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many EMLF ... labels according to your requirements
- **Designation example:**
EMLF (108xE)R
Lettering field length: continuous
Lettering field height: 108 mm
Type of packaging: roll

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

General data	
Can be marked with	
Material	
Temperature range	[°C]
Wipe resistance	

Description	Color
Labels , flexible, can be marked with a thermal transfer printer	
1 roll = 250 labels	silver
Continuous labels , flexible, can be marked with thermal transfer printers, can be separated with a cutter, pitch as desired, strip length up to 1000 mm,	
1 roll = 48 m continuous, height: 50 mm	yellow
1 roll = 48 m continuous, height: 108 mm	white
1 roll = 48 m continuous, height: 108 mm	silver
1 roll = 48 m continuous, height: 108 mm	yellow
1 roll = 48 m continuous, height: 108 mm	blue
1 roll = 48 m continuous, height: 108 mm	orange
1 roll = 48 m continuous, height: 108 mm	red
1 roll = 48 m continuous, height: 108 mm	transparent

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Ink ribbon for roll printer and THERMOMARK CARD, ink color: white, length: 60 m, width: 110 mm

Technical data	
THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1)	

Ordering data		
Type	Order No.	Pcs./Pkt.
EMLF (85X32)R SR	0800680	1
EMLF (50XE)R YE	0804678	1
EMLF (108XE)R	0800549	1
EMLF (108XE)R SR	0800551	1
EMLF (108XE)R YE	0800550	1
EMLF (108XE)R BU	0804197	1
EMLF (108XE)R OG	0804199	1
EMLF (108XE)R RD	0804198	1
EMLF (108XE)R TR	0800552	1

Accessories		
THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1
TM-RIBBON 110 WH 100	0804661	1

Highly-flexible stick-on textile foil

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

The EMLC consists of a textile foil with very low restoring forces.

- Enables labels to be stuck over edges and curves
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many EMLC ... labels according to your requirements
- **Designation example:**
EMLC (5,5x20)R
Lettering field width: 5.5 mm
Lettering field height: 20 mm
Type of packaging: roll

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
Textile labels	
1 roll = 10,000 labels	white
1 roll = 5000 labels	white
1 roll = 2500 labels	white
1 roll = 2500 labels	white
1 roll = 2500 labels	white
1 roll = 1000 labels	white
1 roll = 2500 labels	yellow
1 roll = 2500 labels	yellow
1 roll = 2500 labels	yellow
1 roll = 10,000 labels	yellow
1 roll = 2500 labels	yellow
1 roll = 2500 labels	yellow
1 roll = 1000 labels	yellow
1 roll = 1000 labels	yellow
1 roll = 750 labels	yellow
Textile label, size according to customer specifications	
W x H: max. 100 mm x max. 500 mm	white
	yellow

Ink ribbon for roll printer , ink color: black, length: 300 m, width: 110 mm
Ink ribbon for roll printer , ink color: black, length: 50 m, width: 110 mm

Technical data

THERMOMARK ROLLMARKER 300 • THERMOMARK ROLLMARKER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL PA
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
EMLC (5,5x20)R	0817617	1
EMLC (5,5x40)R	0817620	1
EMLC (15x9)R	0804527	1
EMLC (17,5x8)R	0804528	1
EMLC (20x8)R	0815680	1
EMLC (40x8)R	0800554	1
EMLC (15x9)R YE	0800236	1
EMLC (17,5x8)R YE	0800237	1
EMLC (20x8)R YE	0800235	1
EMLC (20x8)RL YE	0815800	1
EMLC (25x8)R YE	0800240	1
EMLC (25,4x12,7)R YE	0800238	1
EMLC (38x17)R YE	0800557	1
EMLC (40x8)R YE	0800555	1
EMLC (51x25)R YE	0800558	1
EMLC (...X...)R	0803084	1
EMLC (...X...)R YE	0803085	1

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1

Marking and labeling – MARKING system

Equipment marking

Equipment marking for sticking onto rough or textured surfaces

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

The EML-HA features a special adhesive with excellent adhesive strength, which means that it can be attached to rough, textured, and low-energy surfaces.

- When combined with the right ink ribbon, the marking is highly resistant to chemical and mechanical influences, and can also be used under harsh industrial conditions
- The EML-HA ... materials are UL-listed
- Marking service: Phoenix Contact can custom-mark many EML-HA ... labels according to your requirements
- **Designation example:**
EML-HA (15x9)R
Lettering field width: 15 mm
Lettering field height: 9 mm
Type of packaging: roll

General data

Can be marked with

Material
Temperature range
Wipe resistance
Components

[°C]

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Technical data

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Labels, for rough surfaces , highly adhesive, color: white, can be marked with thermal transfer printer				
1 roll = 2500 labels	white	EML-HA (15X9)R	0830600	1
1 roll = 2500 labels	white	EML-HA (19X6)R	0830601	1
1 roll = 2500 labels	white	EML-HA (26,5X12)R	0830603	1
1 roll = 2500 labels	white	EML-HA (40X8)R	0830604	1
1 roll = 1000 labels	white	EML-HA (40X15)R	0830605	1
1 roll = 1000 labels	white	EML-HA (51X25)R	0830729	1
1 roll = 1000 labels	white	EML-HA (60X30)R	0830606	1
1 roll = 1000 labels	white	EML-HA (70X32)R	0830607	1
1 roll = 1000 labels	white	EML-HA (70X50)R	0830730	1
1 roll = 250 labels	white	EML-HA (70X150)R	0830608	1
1 roll = 1000 labels	white	EML-HA (76X51)R	0830609	1
1 roll = 1000 labels	white	EML-HA (85X32)R	0830610	1
1 roll = 300 labels	white	EML-HA (100X73)R	0830731	1
1 roll = 250 labels	white	EML-HA (100X90)R	0830732	1
Labels, for rough surfaces , highly adhesive, color: silver, can be marked with thermal transfer printer				
1 roll = 2500 labels	silver	EML-HA (15X9)R SR	0830611	1
1 roll = 2500 labels	silver	EML-HA (19X6)R SR	0830612	1
1 roll = 2500 labels	silver	EML-HA (26,5X12)R SR	0830614	1
1 roll = 2500 labels	silver	EML-HA (40X8)R SR	0830615	1
1 roll = 1000 labels	silver	EML-HA (40X15)R SR	0830616	1
1 roll = 1000 labels	silver	EML-HA (51X25)R SR	0830733	1
1 roll = 1000 labels	silver	EML-HA (60X30)R SR	0830617	1
1 roll = 1000 labels	silver	EML-HA (70X32)R SR	0830618	1
1 roll = 1000 labels	silver	EML-HA (70X50)R SR	0830734	1
1 roll = 250 labels	silver	EML-HA (70X150)R SR	0830619	1
1 roll = 1000 labels	silver	EML-HA (76X51)R SR	0830620	1
1 roll = 1000 labels	silver	EML-HA (85X32)R SR	0830621	1
1 roll = 300 labels	silver	EML-HA (100X73)R SR	0830735	1
1 roll = 250 labels	silver	EML-HA (100X90)R SR	0830736	1
Label, for rough plastic surfaces , highly adhesive, according to customer specifications W x H: max. 100 mm x max. 500 mm				
	white	EML-HA (...X...)R	0803089	1
	silver	EML-HA (...X...)R SR	0803091	1
1 roll = 40 m continuous, height: 108 mm	white	EML-HA (108XE)R	0804647	1
	yellow	EML-HA (108XE)R YE	0804648	1

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1

Stick-on equipment marking, for high-temperature applications



The EML-HT is made of an acrylate film that is highly temperature-resistant. EML-HT can be used for PCB marking and in all industrial soldering processes.

- Continuous temperature range of -40°C to +180°C; up to 300°C for up to 60 seconds
- When combined with the THERMOMARK-RIBBON 110 EML-HT ink ribbon, the marking is highly resistant to high temperatures and chemicals
- The EML-HT ... materials are UL-listed
- Marking service: Phoenix Contact can custom-mark many EML-HT ... labels according to your requirements
- Single-width large roll with 8000 or 10,000 labels in one length (see illustration below)
- **Designation example:**
EML-HT (15x9)R
Lettering field width: 15 mm
Lettering field height: 9 mm
Type of packaging: roll

Notes:

If processing large rolls with the THERMOMARK ROLL or THERMOMARK ROLL 2.0, use the THERMOMARK ROLL-ERH external media hub. See printers, page 40.

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to
customer specifications



Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Acrylate
-40 ... 180
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
High-temperature labels				
1 roll = 4000 labels	white	EML-HT (15X6)R	0830644	1
1 roll = 4000 labels	white	EML-HT (15X15)R	0800341	1
1 roll = 4000 labels	white	EML-HT (20X7)R	0830645	1
1 roll = 1000 labels	white	EML-HT (40X15)R	0800339	1
1 roll = 1000 labels	white	EML-HT (50X10)R	0800338	1
High-temperature labels, on a large roll, can be marked with a thermal transfer printer				
1 roll = 10,000 labels	white	EML-HT (8X8)RL-T	0830651	1
1 roll = 10,000 labels	white	EML-HT (15X6)RL-T	0830652	1
1 roll = 8000 labels	white	EML-HT (15X15)RL-T	0830653	1
1 roll = 10,000 labels	white	EML-HT (20X7)RL-T	0830654	1
1 roll = 10,000 labels	white	EML-HT (24X4)RL-T	0830655	1
1 roll = 10,000 labels	white	EML-HT (25X8)RL-T	0830656	1
1 roll = 10,000 labels	white	EML-HT (25,4X12,7)RL-T	0830657	1
1 roll = 10,000 labels	white	EML-HT (32X10)RL-T	0830658	1
1 roll = 10,000 labels	white	EML-HT (35X6,5)RL-T	0830659	1
1 roll = 8000 labels	white	EML-HT (40X15)RL-T	0830660	1
1 roll = 10,000 labels	white	EML-HT (45X5)RL-T	0830661	1
1 roll = 10,000 labels	white	EML-HT (50X10)RL-T	0830662	1
High-temperature labels, according to customer specifications				
W x H: max. 100 mm x max. 500 mm	white	EML-HT (...X...)R	0803086	1

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110-EML-HT	0800342	1



Equipment marking

Stick-on equipment marking, for ESD applications



The EML-RM is ideal for temporary marking.

- The label adheres well and reliably, but can also be easily removed again without any leftover residue. Once removed, it cannot be reused
- When combined with the right ink ribbon, the marking is highly resistant to solvents
- The EML-ESD ... materials are UL-listed
- Marking service: Phoenix Contact can custom-mark many EML-ESD ... markers according to your requirements
- Single-width large roll with 8000 or 10,000 labels in one length (see figure below)
- **Designation example:**
EML-ESD (8x8)R
Lettering field width: 8 mm
Lettering field height: 8 mm
Type of packaging: roll

Notes:

If processing large rolls with the THERMOMARK ROLL or THERMOMARK ROLL 2.0, use the THERMOMARK ROLL-ERH external media hub. See printers, page 40.

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to customer specifications



Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color
Labels, for ESD applications, can be marked with a thermal transfer printer	
1 roll = 4000 labels	white
1 roll = 4000 labels	white
1 roll = 4000 labels	white
1 roll = 4000 labels	white
1 roll = 4000 labels	white
1 roll = 4000 labels	white
1 roll = 2500 labels	white
1 roll = 2500 labels	white
1 roll = 2500 labels	white
1 roll = 1000 labels	white
Labels, for ESD applications, on large rolls, can be marked with a thermal transfer printer	
1 roll = 10,000 labels	white
1 roll = 10,000 labels	white
1 roll = 8000 labels	white
1 roll = 10,000 labels	white
1 roll = 10,000 labels	white
1 roll = 10,000 labels	white
1 roll = 10,000 labels	white
1 roll = 10,000 labels	white
1 roll = 10,000 labels	white
1 roll = 8000 labels	white
1 roll = 10,000 labels	white
1 roll = 10,000 labels	white

Type	Order No.	Pcs./Pkt.
EML-ESD (8X8)R	0830564	1
EML-ESD (15X6)R	0830565	1
EML-ESD (15X15)R	0830566	1
EML-ESD (20X7)R	0830567	1
EML-ESD (24X4)R	0830568	1
EML-ESD (25X8)R	0830569	1
EML-ESD (25,4X12,7)R	0830570	1
EML-ESD (35X6,5)R	0830572	1
EML-ESD (40X15)R	0830573	1
EML-ESD (50X10)R	0830575	1
EML-ESD (8X8)RL-T	0830576	1
EML-ESD (15X6)RL-T	0830577	1
EML-ESD (15X15)RL-T	0830578	1
EML-ESD (20X7)RL-T	0830579	1
EML-ESD (24X4)RL-T	0830580	1
EML-ESD (25X8)RL-T	0830581	1
EML-ESD (25,4X12,7)RL-T	0830582	1
EML-ESD (32X10)RL-T	0830583	1
EML-ESD (35X6,5)RL-T	0830584	1
EML-ESD (40X15)RL-T	0830585	1
EML-ESD (45X5)RL-T	0830586	1
EML-ESD (50X10)RL-T	0830587	1

Accessories

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1



Stick-on equipment marking, removable



The EML-RM is ideal for temporary marking.

- The label adheres well and reliably, but can also be easily removed again without any leftover residue. Once removed, it cannot be reused
- When combined with the right ink ribbon, the marking is highly resistant to solvents
- The EML-RM ... materials are UL-listed
- Marking service: Phoenix Contact can custom-mark many EML-RM ... markers according to your requirements
- Single-width large roll with 8000 or 10,000 labels in one length (see figure below)
- **Designation example:**
EML-RM (8x8)R
Lettering field width: 8 mm
Lettering field height: 8 mm
Type of packaging: roll

Notes:

If processing large rolls with the THERMOMARK ROLL or THERMOMARK ROLL 2.0, use the THERMOMARK ROLL-ERH external media hub. See printers, page 40.

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to customer specifications



Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Labels, removable, can be marked with a thermal transfer printer				
1 roll = 4000 labels	white	EML-RM (8X8)R	0830528	1
1 roll = 4000 labels	white	EML-RM (15X6)R	0830529	1
1 roll = 4000 labels	white	EML-RM (15X15)R	0830530	1
1 roll = 4000 labels	white	EML-RM (20X7)R	0830531	1
1 roll = 4000 labels	white	EML-RM (24X4)R	0830532	1
1 roll = 40 m	white	EML-RM (25XE)R	0803713	1
1 roll = 300 m	white	EML-RM (25XE)RL	0804195	1
1 roll = 4000 labels	white	EML-RM (25X8)R	0830533	1
1 roll = 2500 labels	white	EML-RM (25,4X12,7)R	0830534	1
1 roll = 2500 labels	white	EML-RM (35X6,5)R	0830536	1
1 roll = 2500 labels	white	EML-RM (40X15)R	0830537	1
1 roll = 2500 labels	white	EML-RM (45X5)R	0830538	1
1 roll = 1000 labels	white	EML-RM (70X50)R	0803186	1
Labels, removable, on a large roll, can be marked with a thermal transfer printer				
1 roll = 10,000 labels	white	EML-RM (8X8)RL-T	0830540	1
1 roll = 10,000 labels	white	EML-RM (15X6)RL-T	0830541	1
1 roll = 8000 labels	white	EML-RM (15X15)RL-T	0830542	1
1 roll = 10,000 labels	white	EML-RM (20X7)RL-T	0830543	1
1 roll = 10,000 labels	white	EML-RM (24X4)RL-T	0830544	1
1 roll = 10,000 labels	white	EML-RM (25X8)RL-T	0830545	1
1 roll = 10,000 labels	white	EML-RM (25,4X12,7)RL-T	0830546	1
1 roll = 10,000 labels	white	EML-RM (32X10)RL-T	0830547	1
1 roll = 10,000 labels	white	EML-RM (35X6,5)RL-T	0830548	1
1 roll = 8000 labels	white	EML-RM (40X15)RL-T	0830549	1
1 roll = 10,000 labels	white	EML-RM (45X5)RL-T	0830550	1
1 roll = 10,000 labels	white	EML-RM (50X10)RL-T	0830551	1

Accessories

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1



Equipment marking

Stick-on equipment marking, detectable



Thermal transfer for rolls



Unmarked

- The EML-D is a detectable label for marking various types of equipment in controller, systems, and control cabinet manufacturing in the food industry
- The EML-D features a continuous aluminum foil strip that makes the label detectable
 - Thanks to its excellent adhesive strength, this label can be attached to rough, textured, and low-energy surfaces
 - When combined with the TM-RIBBON 110-EX ink ribbon, the printing is highly resistant to solvents, aggressive cleaning agents, acetone, and ethanol
 - **Designation example:**
EMLD (40x15)R
 Lettering field width: 40 mm
 Lettering field height: 15 mm
 Type of packaging: roll

General data	
Can be marked with	
Material	
Temperature range	[°C]
Wipe resistance	
Components	
Description	
Color	
Detectable labels , can be marked with a thermal transfer printer	
1 roll = 1000 labels	white
1 roll = 1000 labels	white
Detectable labels , can be marked with a thermal transfer printer	
1 roll = 1000 labels	silver
1 roll = 1000 labels	silver
Ink ribbon for roll printer , ink color: black, length: 280 m, width: 110 mm	

Technical data		
THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
EML-D (40X15)R	1054876	1
EML-D (60X30)R	1054878	1
EML-D (40X15)R SR	1054877	1
EML-D (60X30)R SR	1054879	1
Accessories		
TM-RIBBON 110-EX	0803211	1

Stick-on equipment marking, with anti-tamper protection



The EMLS is a tamper-proof label that can be used as a rating plate or seal.

- When peeled off, part of the metallic layer comes away. It leaves a triangular pattern on the label and substrate. Reliable safety function up to 80°C
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- The EMLS ... materials are UL-listed
- Marking service: Phoenix Contact can custom-mark many EMLS ... markers according to your requirements
- **Designation example:**
EMLS (15x9)R SR
Lettering field size: 15 x 9 mm
Type of packaging: roll

Notes:

If processing large rolls with the THERMOMARK ROLL or THERMOMARK ROLL 2.0, use the THERMOMARK ROLL-ERH external media hub. See printers, page 40.

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description

Safety labels, can be marked with thermal transfer printer

1 roll = 2500 labels	silver
1 roll = 2500 labels	silver
1 roll = 1000 labels	silver
1 roll = 1000 labels	silver
1 roll = 1000 labels	silver
1 roll = 1000 labels	silver
1 roll = 1000 labels	silver
1 roll = 500 labels	silver
1 roll = 500 labels	silver
1 roll = 100 labels	silver
1 roll = 250 labels	silver
1 roll = 250 labels	silver
1 roll = 3000 labels	silver

Safety label, with special adhesive, according to customer specifications

W x H: max. 100 mm x max. 500 mm

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
EMLS (15X9)R SR	0800347	1
EMLS (19X6)R SR	0800343	1
EMLS (20X20)R SR	0800344	1
EMLS (26,5X12)R SR	0800353	1
EMLS (38,1X19)R SR	0800354	1
EMLS (40X8)R SR	0800348	1
EMLS (40X15)R SR	0800345	1
EMLS (60X30)R SR	0800355	1
EMLS (70X32)R SR	0800346	1
EMLS (70X150)R SR	0800351	1
EMLS (76X51)R SR	0800350	1
EMLS (85X32)R SR	0800356	1
EMLS (100X50)RL SR	1080203	1
EMLS (...X...)R SR	0803088	1

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1

Equipment marking

Equipment marking for rotary switches from Phoenix Contact



The EML-RS for marking rotary switches from Phoenix Contact.

- For either sticking on or snapping in with transparent EMPPR (45,8x45,8) cover
- Additional protection under extreme ambient conditions with the transparent EMPPR (45,8x45,8) cover
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- The EML-RS ... materials are UL-listed
- Marking service: Phoenix Contact can custom-mark many EML-RS ... labels according to your requirements
- **Designation example:**
EML-RS (45,8x45,8)R
 Lettering field width: 45.7 mm
 Lettering field height: 45.7 mm
 Type of packaging: roll

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to customer specifications



General data

Can be marked with

Material
Temperature range
Wipe resistance
Components

[°C]

Description

Color

Labels, can be marked with a thermal transfer printer

1 roll = 250 labels
1 roll = 250 labels

white
silver

Snap-in shock protection, for RS20-... rotary switches, transparent

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Technical data

THERMOMARK ROLL 2.0 • THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.
EML-RS (45,7X45,7)R	0803387	1
EML-RS (45,7X45,7)R SR	0803187	1

Accessories

EMPPR (45,8X45,8)	0803389	25
THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1

Equipment marking via insert labels

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

- The EMT (EX15)R marking material in continuous format is designed to be snapped into the CARRIER-EMP ... and CARRIER/L-EMP ... carrier profile
- Exact marking with the PROJECT complete marking software
 - Quick and cost-effective marking with THERMOMARK ... roll printers from Phoenix Contact
 - The thermal transfer printer cutting units make it possible to quickly and cleanly trim equipment markings precisely to the required length
 - When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
 - Marking service: Phoenix Contact can custom-mark many EMT ... markers according to your requirements
 - **Designation example:**
EMT (Ex15)R
 Lettering field length: continuous
 Lettering field height: 15 mm
 Type of packaging: roll

General data

Can be marked with

Material
 Temperature range [°C]
 Wipe resistance
 Components

Technical data

THERMOMARK ROLLMARKER 300 • THERMOMARK ROLLMARKER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL PVC
 -30 ... 80
 DIN EN 61010-1 (VDE 0411-1)
 Silicone-free

Description Color

Continuous insert strips, can be marked with thermal transfer printers, can be separated with a cutter, pitch as desired, strip length up to 1000 mm

1 roll = 50 m continuous, height: 15 mm white

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 25 mm

Ordering data

Type	Order No.	Pcs./Pkt.
EMT (EX15)R	0830671	1

Accessories

TM-RIBBON 25 BK 102	1053499	1

Notes:

For corresponding CARRIER-EMP... carrier profiles, see phoenixcontact.net/products

If processing large rolls with the THERMOMARK ROLL or THERMOMARK ROLL 2.0, use the THERMOMARK ROLL-ERH external media hub. See printers, page 40.

Equipment marking

Snap-in device makers for Axioline systems from Phoenix Contact



The EMT ... marking materials are insert strips for marking Axioline and Inline modules from Phoenix Contact

- Quick and cost-effective marking with THERMOMARK ... roll printers from Phoenix Contact
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- An overview of the devices that support marking can be found starting on page 262
- Marking service: Phoenix Contact can custom-mark many EMT ... markers according to your requirements
- **Designation example:**
EMT (35x18,7)R
 Lettering field width: 35 mm
 Lettering field height: 18.7 mm
 Type of packaging: roll

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

General data

Can be marked with

Material
 Temperature range
 Wipe resistance
 Components

[°C]

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL
 Polyester
 -40 ... 120
 DIN EN 61010-1 (VDE 0411-1)
 Free from silicone and halogen

Ordering data

Description	Color
Insert strips for Axioline modules , can be marked with thermal transfer printers	
1 roll = 500 insert strips	white
1 roll = 500 insert strips	white
	yellow
1 roll = 500 insert strips	white
	yellow
1 roll = 500 labels, lettering field size: 44 x 7 mm	white
1 roll = 500 labels, lettering field size: 60 x 10 mm	white
1 roll = 500 insert strips	white
	yellow
1 roll = 250 insert strips	white
	yellow
1 roll = 1000 insert strips	white

Type	Order No.	Pcs./Pkt.
EMT (35X18,7)R	0801831	1
EMT (35X28)R	0801602	1
EMT (35X28)R YE	0801603	1
EMT (35X46)R	0801604	1
EMT (35X46)R YE	0801605	1
EMT (44X7)R	0819275	1
EMT (60X10)R	0804288	1
EMT (62X10)R	0800057	1
EMT (62X10)R YE	0800477	1
EMT (62X46)R	0800059	1
EMT (62X46)R YE	0800478	1
EMT (80X15,5)R	0804286	1

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110-WMTB HF	5148007	1

Device markers for Siemens controllers

The EMT ... marking materials are insert strips for marking SIEMENS PLC controllers and components from other manufacturers.

- Quick and cost-effective marking with THERMOMARK ... roll printers from Phoenix Contact
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- An overview of the devices that support marking can be found starting on page 262
- Marking service: Phoenix Contact can custom-mark many EMT ... markers according to your requirements
- **Designation example:**
EMT (9,8x38,2)R TQ
Lettering field width: 9.8 mm
Lettering field height: 38.2 mm
Color: turquoise
Type of packaging: roll

Notes:

For additional information on the use of Siemens devices, see the product area on our website at phoenixcontact.net/products.

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK ROLLMARKER 300 • THERMOMARK ROLLMARKER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Insert strips , can be marked with thermal transfer printer				
1 roll = 500 insert strips	turquoise	EMT (9,8X38,2)R TQ	0803893	1
	yellow	EMT (9,8X38,2)R YE	0803892	1
1 roll = 500 insert strips	white	EMT (13X109)R	0803894	1
	gray	EMT (13X109)R GY	0803898	1
	turquoise	EMT (13X109)R TQ	0803897	1
	yellow	EMT (13X109)R YE	0803895	1
1 roll = 500 insert strips	white	EMT (23X109)R	0803457	1
	turquoise	EMT (23X109)R TQ	0803458	1
	yellow	EMT (23X109)R YE	0803459	1
	gray	EMT (23X109)R GY	0803460	1
1 roll = 500 insert strips	white	EMT (31X12,5)R	0800008	1
	yellow	EMT (31X12,5)R YE	0802764	1
	gray	EMT (31X12,5)R GY	0801612	1
	turquoise	EMT (31X12,5)R TQ	1073887	1
1 roll = 500 insert strips	white	EMT (50X18,8)R	1003224	1
	gray	EMT (50X18,8)R GY	1003223	1
1 roll = 500 insert strips	white	EMT (50X26)R	0800052	1
	turquoise	EMT (50X26)R TQ	0800053	1
	yellow	EMT (50X26)R YE	0800054	1
1 roll = 500 insert strips	white	EMT (103X17)R	0800039	1
	turquoise	EMT (103X17)R TQ	0800041	1
	yellow	EMT (103X17)R YE	0800436	1
1 roll = 500 insert strips	white	EMT (103X23)R	0800040	1
	yellow	EMT (103X23)R YE	0800437	1
	turquoise	EMT (103X23)R TQ	0800042	1
Insert strips with two lettering field sizes , can be marked with thermal transfer printers, 1 roll = 500 insert strips each, lettering field size: 50 x 12.8 mm and 27.5 x 12.8 mm	white	EMT (50/28X13)R	0800049	1
	yellow	EMT (50/28X13)R YE	0800438	1
	turquoise	EMT (50/28X13)R TQ	0800050	1
	red	EMT (50/28X13)R RD	0832082	1
Continuous insert strips , can be marked with thermal transfer printers, can be separated with a cutter, pitch as desired, strip length: up to 1000 mm, 1 roll = 30 m continuous, width: 14 mm	white	EMT (EX14)R	0803461	1
	turquoise	EMT (EX14)R TQ	0803462	1
	yellow	EMT (EX14)R YE	0803463	1
1 roll = 30 m continuous, width: 17 mm	white	EMT (EX17)R	0804546	1
1 roll = 30 m continuous, width: 38 mm	white	EMT (EX38)R	0804547	1
1 roll = 30 m continuous, width: 40 mm	white	EMT (EX40)R	0804545	1

Accessories

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

THERMOMARK-RIBBON 110-WMTB HF	5148007	1

Equipment marking

Stick-on equipment marking

Can be marked using:



Plotter



Office laser printing

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

- Specially developed labels for laser printers
- Can be printed on all standard laser printers
- The unperforated SK U ... sheets are available for custom label designs
- Marking service: Phoenix Contact can custom-mark many BMKL ... markers according to your requirements
- **Designation example:**
BMKL 12x12 WH
Lettering field width: 12 mm
Lettering field height: 12 mm
WH = white
Type of packaging: sheet

Notes:

Print image may vary depending on laser printer

General data

Can be marked with

Material

Temperature range

Wipe resistance

Components

[°C]

Polyester

-20 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

PLOTMARK • CMS-P1-PLOTTER • Office printing systems

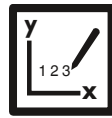
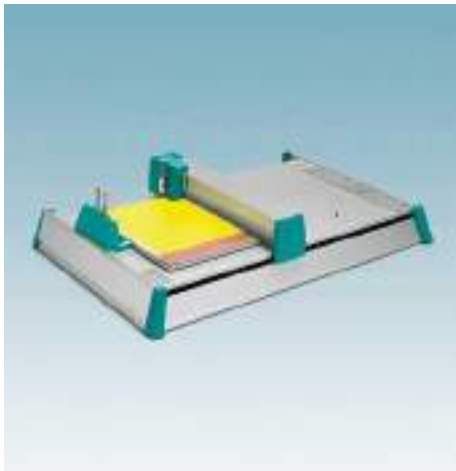
Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Sheet of labels for laser printer, DIN A4				
1 sheet = 273 labels	white	BMKL 12X12 WH	5032361	10
1 sheet = 290 labels	white	BMKL 15X 9 WH	0803663	10
1 sheet = 396 labels	white	BMKL 18X 6 WH	5032293	10
1 sheet = 288 labels	white	BMKL 18X 8 WH	5032329	10
1 sheet = 224 labels	white	BMKL 20X 8 WH	5032280	10
1 sheet = 224 labels	white	BMKL 25X 8 WH	5032332	10
1 sheet = 147 labels	white	BMKL 25X12 WH	5032374	10
1 sheet = 228 labels	white	BMKL 26,8X6,8 WH	0807106	10
1 sheet = 63 labels	white	BMKL 50X12 WH	5032387	10
1 sheet = 45 labels	white	BMKL 64X16 WH	0821807	2
1 sheet = 21 labels	white	BMKL 64X34 WH	5032400	10
1 sheet = 290 labels	yellow	BMKL 15X 9 YE	5032497	10
1 sheet = 405 labels	yellow	BMKL 16X 6 YE	0807096	10
1 sheet = 288 labels	yellow	BMKL 18X 8 YE	5032170	10
1 sheet = 168 labels	yellow	BMKL 19X11 YE	0800705	10
1 sheet = 224 labels	yellow	BMKL 20X 8 YE	5032138	10
1 sheet = 162 labels	yellow	BMKL 26X10 YE	0811516	10
1 sheet = 45 labels	yellow	BMKL 64X16 YE	0821810	2
1 sheet = 192 labels	silver	BMKL 27X 8 SR	0803702	10
1 sheet = 126 labels	silver	BMKL 27X12,5 SR	0803676	10
1 sheet = 84 labels	silver	BMKL 27X18 SR	0803689	10
1 sheet = 54 labels	silver	BMKL 27X27 SR	0803692	10
Marking sheet, unperforated, self-adhesive, DIN A4 format				
	white	SK U WH:UNGESTANZT	0800129	10
	yellow	SK U YE:UNGESTANZT	0800132	10
	silver	SK U SR:UNGESTANZT	0800145	10
	transparent	SK U TR:UNGESTANZT	0806699	10



Stick-on equipment marking

Can be marked using:



Plotter



Unmarked or marked according to customer specifications

- Self-adhesive labels for marking by hand or with a plotter
- Secure adhesion even on curved or uneven surfaces as well as at corners
- Available in various dimensions
- Marking service: Phoenix Contact can custom-mark many EID ... markers according to your requirements

General data

Can be marked with
Material
Temperature range
Components

[°C]

Technical data

PLOTMARK • CMS-P1-PLOTTER
Polyester foil
-40 ... 80
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
1 sheet = 324 labels	yellow	BMK 15X 9 YE	5031605	10
1 sheet = 198 labels	yellow	BMK 19X11 YE	5031582	10
1 sheet = 270 labels	yellow	BMK 20X 8 YE	5031388	10
1 sheet = 88 labels	yellow	BMK 38X11 YE	5031676	10

Accessories

Magazine for accommodating sheet material, self-adhesive mat for fixing labels, foils and paper, size of sheet max. DIN A4

CMS-P1-PAD	5144819	1

Marking and labeling – MARKING system

Equipment marking

Stick-on equipment marking, can be engraved or marked

Can be marked using:



Plotter



Engraving



Unmarked or marked according to customer specifications

- The label sheet is made up of prefabricated, individual self-adhesive labels
- The adhesive foil used ensures good adhesive properties, even on uneven surfaces
- Can be easily marked with plotter systems
- Can be engraved with engraving systems
- Two-layer material
- Marking service: Phoenix Contact can custom-mark many GPE ... markers according to your requirements
- **Designation example:**
GPE 13x9 WH
Lettering field width: 13 mm
Lettering field height: 9 mm
WH = white
Type of packaging: sheet

Notes:

Matching magazines to accommodate the label sheets, see page 52.

General data

Can be marked with

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

PLOTMARK • ENGRAVING UNIT • CMS-P1-PLOTTER • P1
ENGRAVING UNIT
TRANSPLY-ABS
-20 ... 85
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color

Plastic label sheet, self-adhesive double-layer plastic labels, material thickness: 0.8 mm, square corners

1 sheet = 120 labels	white
1 sheet = 75 labels	white
1 sheet = 100 labels	white
1 sheet = 88 labels	white
1 sheet = 60 labels	white
1 sheet = 9 labels	white
1 sheet = 21 labels	red/white
1 sheet = 5 labels	yellow
1 sheet = 30 labels	silver

Plastic label sheet, self-adhesive double-layer plastic labels, material thickness: 0.8 mm, with rounded corners, radius: 2 mm

1 sheet = 66 labels	white
1 sheet = 30 labels	white
1 sheet = 26 labels	white
1 sheet = 21 labels	white
1 sheet = 9 labels	white
1 sheet = 32 labels	silver
1 sheet = 66 labels	silver
1 sheet = 42 labels	silver
1 sheet = 30 labels	silver
1 sheet = 18 labels	silver
1 sheet = 26 labels	silver
1 sheet = 21 labels	silver

Type	Order No.	Pcs./Pkt.
GPE 13X 9 WH	0806932	10
GPE 17,5X12 WH	0806916	10
GPE 20X 7 WH	0806990	10
GPE 20X 8 WH	0806945	10
GPE 22X12 WH	0806929	10
GPE 52X26 WH	0806958	10
GPE 60X30 WH	0806961	10
GPE 60X12 RD-WH	0824202	10
GPE 70X32 YE	0824215	10
GPE 28X17,5 SR	0807889	10
GPE 27X 8 WH/R	0815198	10
GPE 27X18 WH/R	0815208	10
GPE 45X14 WH/R	0815282	10
GPE 60X12 WH/R	0807630	10
GPE 60X30 WH/R	0815292	10
GPE 22X22 SR/R	0806628	10
GPE 27X 8 SR/R	0806877	10
GPE 27X12,5 SR/R	0806880	10
GPE 27X18 SR/R	0806893	10
GPE 27X27 SR/R	0806903	10
GPE 45X14 SR/R	0807009	10
GPE 60X12 SR/R	0806631	10

Engraving unit, for the PLOTMARK, incl. operating instructions (English/German), data CD and engraving chisel

Marking plotter, incl. power supply unit, connecting cable (Centronics and USB), CMS-PEN 0,25 pen, user manual, CLIP PROJECT planning and marking software

Magazine for CMS-P1-PLOTTER and the PLOTMARK, for accommodating EMLP ... and GPE ... materials for engraving

- 1 GPE label sheet

Accessories

P1 ENGRAVING UNIT	5145546	1
CMS-P1-PLOTTER	5144615	1
CMS-P1-M/GPE ENGRAVING	5145711	1



Stick-on equipment marking, can be engraved or marked

Can be marked using:



Plotter



Engraving



Unmarked or marked according to
customer specifications



- High level of resistance to chemical and mechanical effects
- High-quality look
- Can be easily marked with plotter systems
- Can be engraved with engraving systems
- For marking components, devices, and buttons
- Marking service: Phoenix Contact can custom-mark many EMLP ... markers according to your requirements
- **Designation example:**
EMLP 24 (30x12)
Hole diameter: 24 mm
Lettering field width: 30 mm
Lettering field height: 12 mm
Type of packaging: sheet

General data

Can be marked with

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

PLOTMARK • ENGRAVING UNIT • CMS-P1-PLOTTER • P1
ENGRAVING UNIT
TRANSPLY-ABS
-40 ... 80
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color
Plastic label sheet , with a hole for 24-mm-Ø pushbutton, self-adhesive double-layer plastic labels, material thickness: 0.8 mm	
1 sheet = 6 labels	white
1 sheet = 6 labels	black
1 sheet = 6 labels	silver
Plastic label sheet , with a hole for 32-mm-Ø pushbutton, self-adhesive double-layer plastic labels, material thickness: 0.8 mm	
1 sheet = 6 labels	white
1 sheet = 6 labels	black
1 sheet = 6 labels	silver

Type	Order No.	Pcs./Pkt.
EMLP 24 (30X12)	0822301	1
EMLP 24 (30X12) BK	0822314	1
EMLP 24 (30X12) SR	0822330	1
EMLP 32 (38X14)	0822291	1
EMLP 32 (38X14) BK	0822327	1
EMLP 32 (38X14) SR	0822343	1

Accessories

Magazine, to accommodate 1 GPE label sheet

CMS-P1-M/GPE ENGRAVING	5145711	1

Marking and labeling – MARKING system

Equipment marking

Marker carriers



- The CARRIER-EMP ... marker carriers are used in conjunction with the UC-EMP ... / US-EMP ... and EMP-AL ... snap-in labels
- They ensure the clear identification of devices and control cabinets
- They can be assembled using screws or rivets



For snap-in labels

General data

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	

PA
V2
-40 ... 105
Free from silicone and halogen

Technical data

Ordering data

Description	Color
Marker carrier , for UC-EMP ... / US-EMP .../ EMP-AL ... snap-in labels	
Marker size: 17 x 15 mm	black
Marker size: 27 x 15 mm	black
Marker size: 49 x 15 mm	black
Marker size: 60 x 15 mm	black
Marker size: 60 x 30 mm	black
Marker size: 85 x 54 mm	black

Type	Order No.	Pcs./Pkt.
CARRIER-EMP (17X15)	0827450	80
CARRIER-EMP (27X15)	0827451	80
CARRIER-EMP (49X15)	0827452	40
CARRIER-EMP (60X15)	0827453	40
CARRIER-EMP (60X30)	0827454	30
CARRIER-EMP (85,6X54)	0829365	10

Marker carriers, can be marked using snap-in markers for control devices



- Snap-in UC-/US-EMP ... and EMP-AL ... labels are available for marking CARRIER-EMP 22 ... marker carriers
- Can be used for all buttons and switches with 22 mm diameter



For buttons and switches
22 mm in diameter

General data

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	

PA
V2
-40 ... 105
Free from silicone and halogen

Technical data

Ordering data

Description	Color
Marker carrier , for UC-EM ... / US-EMP .../ EMP-AL ... snap-in labels	
Marker size: 27 x 8 mm	black
Marker size: 27 x 12.5 mm	black
Marker size: 27 x 15 mm	black
Marker size: 27 x 18 mm	black
Marker size: 27 x 27 mm	black

Type	Order No.	Pcs./Pkt.
CARRIER-EMP 22 (27X8)	0827445	50
CARRIER-EMP 22 (27X12,5)	0827446	50
CARRIER-EMP 22 (27X15)	0827447	50
CARRIER-EMP 22 (27X18)	0827448	50
CARRIER-EMP 22 (27X27)	0827449	50

Marker carriers, can be marked using control device labels



- Can be used for all buttons and switches with 22 mm diameter
- The large marking areas on the CARRIER-EMLP can be individually marked with the EML ... thermal transfer labels and UC-EMLP ... / US-EMLP ... and EMLP-AL ... labels
- EMLPR ... transparent adhesive protective film can be used for additional protection of the label surfaces



For buttons and switches
22 mm in diameter

General data

Material	PA
Flammability rating in accordance with UL 94	V2
Temperature range	-40 ... 105 [°C]
Components	Free from silicone and halogen
Button diameter	22 [mm]

Technical data

PA
V2
-40 ... 105
Free from silicone and halogen
22

Ordering data

Description	Color
Marker carrier , for buttons and switches with a 22 mm diameter, can be marked with self-adhesive labels EML ..., UC-EMLP ... / US-EMLP ... and EMLP-AL ...	
Marker size: 27 x 8 mm	black
Marker size: 27 x 12.5 mm	black
Marker size: 27 x 15 mm	black
Marker size: 27 x 18 mm	black
Marker size: 27 x 27 mm	black

Type	Order No.	Pcs./Pkt.
CARRIER-EMLP 22 (27X8)	0828984	50
CARRIER-EMLP 22 (27X12,5)	0828985	50
CARRIER-EMLP 22 (27X15)	0828986	50
CARRIER-EMLP 22 (27X18)	0828987	50
CARRIER-EMLP 22 (27X27)	0828988	50

Transparent stick-on or snap-in cover



- Stuck or snapped onto marked CARRIER ... to protect the labels
- Extremely thick, yet flexible and transparent shock protection
- High level of mechanical and chemical stability
- Suitable for permanent outdoor use



Shock protection

Description	Color
Shock protection , designed for snapping into CARRIER-EMLP ...	
	transparent
	transparent
	transparent

Ordering data

Type	Order No.	Pcs./Pkt.
EMPPR (27X15)	0829535	50
EMPPR (27X18)	0829536	50
EMPPR (45,8X45,8) PL-100	0803476	100

Marking and labeling – MARKING system

Equipment marking

Marking profiles

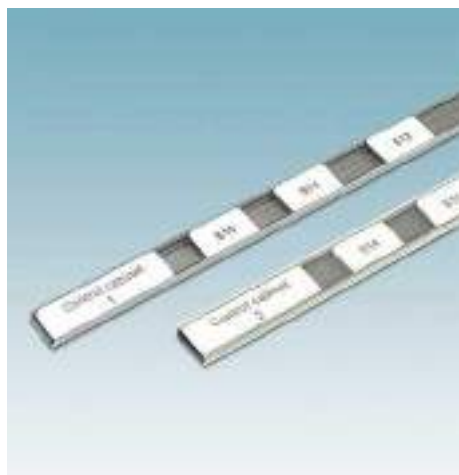
- Self-adhesive marker carriers, available by the meter for cutting to custom length
- Strong adhesion and optimum grip on standard device surfaces
- The P-SS-ZB 100 is particularly suitable for accommodating SS-ZB, UC-EM (20x9), UCT-EM (20x9)
- The P-ZB METER is marked with marking material for the vertical and horizontal marker grooves found on Phoenix Contact terminal blocks



For self-adhesion

General data		Technical data		
Material		PVC		
Flammability rating in accordance with UL 94		V0		
Temperature range		-15 ... 80		
[°C]				
Description		Ordering data		
Color		Type	Order No.	Pcs./Pkt.
Profile, self-adhesive, for accommodating SS-ZB labels, UC-EM (20x9), UCT-EM (20x9), length: 1000 mm		P-SS-ZB 100	1013737	10
Profile, self-adhesive, for accommodating UC-TM ..., UCT-TM ..., ZB ..., length: 1 m		P-ZB METER	1051854	1
gray				
gray				

Marking profiles



- The CARRIER-EMP ... marker carriers can be individually equipped with UC-EMP ... / US-EMP ... / EMT ... and EMP-AL ... device markers
- For marking devices
- For marking modules
- For marking control and switchgear



Designed to be stuck on or for screwing/riveting

General data		Technical data		
Material		PVC		
Flammability rating in accordance with UL 94		V0		
Temperature range		-40 ... 60		
Components		Silicone-free		
[°C]				
Description		Ordering data		
Color		Type	Order No.	Pcs./Pkt.
Profile, for screwing or riveting, 1000 mm long, for accommodating UCT-... / UC-... / US-... / EMT ... and EMP-AL material with 15 mm height		CARRIER-EMP (1000X15) GY	0829366	25
gray		CARRIER-EMP (1000X15) TR	0829530	25
transparent				
Profile, self-adhesive, 1000 mm long, for accommodating UCT-... / UC-... / US-... / EMT ... and EMP-AL ... material with 15 mm height		CARRIER/L-EMP (1000X15) GY	0829559	25
gray		CARRIER/L-EMP (1000X15) TR	0829560	25
transparent				
CARRIER cover, 1000 mm long		CARRIER-EMP (1000X15) COVER	0829520	25
transparent				

Marker carriers



- Self-adhesive marker carriers for marking devices and components
- Strong adhesion and optimum grip on standard device surfaces
- These carrier materials can be fitted, e.g., with UC-WMT ..., US-WMT ..., EMT ..., and UCT-WMT



For insert strips

General data		Technical data		
Material		PVC		
Flammability rating in accordance with UL 94		V0		
Temperature range		-40 ... 60		
Components		Silicone-free		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
Component marking label, self-adhesive, can be marked with UC-WMT ..., US-WMT ..., EMT ..., and UCT-WMT				
Lettering field size: 15 x 4 mm	transparent	PAB-SK 15	1013287	500
Component marking label, self-adhesive, can be marked with UC-WMT ..., US-WMT ..., EMT ..., and UCT-WMT				
Lettering field size: 30 x 4 mm	transparent	PAB-SK 30	1013290	200

Equipment marking

Marker carriers with cover

Can be marked using:



Plotter



For screw or rivet fixing

- Control cabinet markers consisting of a transparent cap and a base carrier
- The base carrier features two fixing holes so that it can be screwed on
- Once marked, the insert label is inserted in the cap and this is then snapped onto the base carrier
- The marking is protected against external influences
- The ES-SSMK ... insert strips can be marked with the CMS-P1-PLOTTER and the CMS-P1-PAD magazine

General data	
Can be marked with	
Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	
Drill hole spacing	[mm]
Hole diameter	[mm]

Technical data

PLOTMARK • CMS-P1-PLOTTER
PC
V2
-40 ... 115
Free from silicone and halogen
40
3.5

Description	Color
Control cabinet marker , two mounting holes M3	
Size: 60 x 18 mm, lettering field size: 56 x 14 mm, incl. 1 x ES-SSMK-GB 60X18	transparent/white
Size: 96 x 30 mm, lettering field size: 92 x 26 mm, incl. 1 x ES-SSMK-GB 90X30	transparent/white

Ordering data		

Type	Order No.	Pcs./Pkt.
SSMK 60X18	5032439	50
SSMK 96X30	5032442	50

Large format sheet insert strips , can be marked with plotter, DIN A4, perforated, material: Cardboard	
1 sheet = 75 strips, lettering field size: 56 x 14 mm	transparent/white
1 sheet = 22 strips, lettering field size: 92 x 26 mm	transparent/white

Accessories		

ES-SSMK-GB 60X18	5032468	10
ES-SSMK-GB 96X30	5032455	10



Transparent stick-on cover



- Extremely thick, but flexible and transparent label made from halogen-free PU
- Stuck over marked labels or markers to protect them
- High level of mechanical and chemical stability
- Suitable for permanent outdoor use



Shock protection

General data

Material	PUR
Temperature range	-40 ... 90 [°C]
Components	Halogen-free

Technical data

Description	Color
Shock protection foil , designed for sticking into CARRIER-EMLP ...	
51 labels per sheet	transparent
42 labels per sheet	transparent
30 labels per sheet	transparent
14 labels per sheet	transparent
6 labels per sheet	transparent
4 labels per sheet	transparent
9 labels per sheet	transparent
Touch proofness , size according to customer specifications	
W x H: max. 100 mm x max. 500 mm	transparent

Ordering data

Type	Order No.	Pcs./Pkt.
EMLPR (26,5X14,5)	0800546	10
EMLPR (26,5X17,5)	0800360	10
EMLPR (26,5X26,5)	0800361	10
EMLPR (30X40)	0800359	10
EMLPR (80X42)	0800357	10
EMLPR (80X60)	0800358	10
EMLPR (100X30)	0800362	10
EMLPR (...X...)R	0803094	1



Plant marking – MARKING system

Clear and extensive marking of systems not only guarantees safety but is also a legal requirement. Safety and information signs provide important information. They improve operational processes.

Phoenix Contact offers numerous marking labels for plant marking. From warning labels to multicolored symbol signs, the extremely diverse product range covers all applications. We offer a range of printing systems for marking.

To make marking systems even more efficient, RFID labels are also available to you. This portfolio is completed by a flexible mounting concept composed of different marker carriers and mounting options.

Product range overview

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PML-P... prohibition signs

Unmarked prohibition signs, UniSheet material 367

Unmarked prohibition signs, supplied in rolls 372

PML-M... mandatory signs

Unmarked mandatory signs, UniSheet material 368

Unmarked mandatory signs, supplied in rolls 373

US-PML-ESS... emergency stop button marking

Adhesive label for marking EMERGENCY STOP buttons 369

US-PML-F... fire detection system marking

Adhesive label for marking fire alarm systems 370

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PML-GHS... hazardous substances labels

Unmarked hazardous substances labels, UniSheet material 371

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PMM... magnetic labels

Unmarked magnetic labels, supplied in rolls 385



Unambiguous marking of systems helps to avoid operating errors and is therefore a key component of occupational safety. Information and safety signs also provide important information on site, making it easier to maintain systems.

Phoenix Contact offers a wide range of labels which meet the legal requirements for correct plant marking.

The combination of printing system and marking material ensures high quality with regard to the appearance, wipe and scratch resistance.

Receive, transmit, and scan data on a contact-free basis and without visual contact thanks to RFID technology. Design your plant marking clearly, efficiently, and conveniently. To this end, various marking labels are available with integrated RFID transponder. A flexible mounting system is created when different marker carriers are combined.

Depending on the application and material for individual marking, the following marking systems can be used.

- BLUEMARK ID and BLUEMARK ID COLOR, high-speed printer with UV LED technology for marking UniCard formats and PM(L)P-RFID ... marking labels with integrated RFID transponder
- THERMOMARK CARD 2.0 and THERMOMARK PRIME, thermal transfer card printer for marking UniSheet and UniCard formats
- THERMOMARK ROLL 2.0, thermal transfer roll printer for marking material off the roll and continuous media
- THERMOMARK ROLLMASTER 300 and ROLLMASTER 600, industrial thermal transfer roll printer for large printing volumes of rolls and continuous media

Create custom safety and information signs quickly and conveniently in the PROJECT complete marking software. All pictograms approved in accordance with ISO 7010 are included. Simply select the material to be printed, the software does the rest. All pictograms are easily added via drag and drop.

The optimum dimensions, as prescribed by standards, are automatically scaled to the selected format. Then you only have to send the print job. That's how easy standard-compliant plant marking can be.

Please contact us if you are unable to find a suitable size or color for your application from the options available in our product range. It goes without saying that Phoenix Contact also offers a comprehensive marking service for plant marking applications.



PM(L)P-RFID and UC-PM(L)P

Regardless of whether it's with or without an RFID transponder, pipelines and systems can be easily and flexibly marked with the corresponding marker carriers and assembly materials.



PML-W warning labels

Warning labels are used to identify danger areas in systems and workshops. The unmarked warning labels allow you to create custom warning instructions.



PML-P prohibition signs

Prohibition signs prohibit potentially dangerous activities. They are therefore a key component of occupational health and safety.



PML-M mandatory signs

Mandatory signs prescribe a certain mode of behavior. They are used to prevent accidents in the workplace.



US-PML-ESS emergency stop button marking

According to Machinery Directive 2006/42/EG, EMERGENCY STOP buttons must be specially marked. In an emergency, they must be clearly and immediately recognizable.



US-PML-F fire detection system marking

So that the corresponding smoke alarm can be immediately identified in the event of an emergency, smoke alarms must be clearly marked.



PML-T pipeline labels

Pipeline markers are used to indicate fluids or gases. The direction of flow can also be defined by removing the arrowhead that is not required.



PML-GHS hazardous substances labels

Hazardous substance labels are used for the additional marking of the pipeline markers if hazardous substances according to the Ordinance on Hazardous Substances (GefStoffV) are transported through the pipelines.



PMM magnetic labels

Magnetic labels provide a flexible solution if you do not wish to apply permanent marking. They are quickly attached to metallic surfaces and removed just as speedily.

Plant marking

Stick-on plant marking with RFID transponder

Can be marked using:



UV LED technology



Self-adhesive label with integrated RFID transponder

Markers

- The PMLP-RFID ... marking range includes self-adhesive markers for plant marking, pre-mounted in a frame, with good adhesive properties
- The markers are integrated in a uniform matrix. They can be quickly and easily printed with the BLUEMARK ...
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The wide temperature range means that the labels can be used both indoors and outdoors

Inlays

- The HF transponder inlays comply with ISO 15693 and ISO 18000-3 mode 1
- The UHF transponder inlays comply with EPC Class 1 Gen 2 and ISO 18000-6C

General data

Can be marked with

Material
Flammability rating in accordance with UL 94
Temperature range
Wipe resistance
Components

[°C]

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED

PVC/PC
V0
-25 ... 80
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and cadmium

Ordering data

Description	Color
Self-adhesive plastic label , in a frame, with integrated HF transponder	
1-section, lettering field size: 90 x 38 mm, reading performance: max. 0.1 m, depending on the environment, frequency: 13.56 MHz, memory capacity: 1 KB	white
1-section, lettering field size: 110 x 38 mm, reading performance: 0.1 m, depending on the environment, frequency: 13.56 MHz, memory capacity: 1 KB	white
UniCard , self-adhesive plastic label, with integrated UHF transponder	
1-section, lettering field size: 90 x 38 mm, reading performance: max. 2.0 m, depending on the environment, frequency: 866 - 956 MHz, memory capacity: 496 bit	white
1-section, lettering field size: 110 x 38 mm, reading performance: 2.0 m, depending on the environment, frequency: 866 - 956 MHz, memory capacity: 496 bit	white

Type	Order No.	Pcs./Pkt.
PMLP-RFID/HF (90X38)	0830956	10
PMLP-RFID/HF (110X38)	0831030	10
PMLP-RFID/UHF (90X38)	0830957	10
PMLP-RFID/UHF (110X38)	0831031	10

Plant marking for inserting into marker carriers, with RFID transponder



Can be marked using:



UV LED technology



Label with integrated RFID transponder

Markers

- The PMP-RFID ... marking range includes markers for plant marking, pre-mounted in a frame, specially designed to fit into existing CARRIER(/L)-PMP ... (110x38) marker carriers
- The markers are integrated in a uniform matrix. They can be quickly and easily printed with the BLUEMARK ...
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The wide temperature range means that the labels can be used both indoors and outdoors

Inlays

- The HF transponder inlays comply with ISO 15693 and ISO 18000-3 mode 1
- The UHF transponder inlays comply with EPC Class 1 Gen 2 and ISO 18000-6C

General data

Can be marked with

Material

Flammability rating in accordance with UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED

PVC/PC

V0

-25 ... 80

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Plastic label , in a frame, with integrated HF transponder				
1-section, lettering field size: 90 x 38 mm, reading performance: max. 0.1 m, depending on the environment, frequency: 13.56 MHz, memory capacity: 1 KB	white	PMP-RFID/HF (90X38)	0830954	10
1-section, lettering field size: 110 x 38 mm, reading performance: 0.1 m, depending on the environment, frequency: 13.56 MHz, memory capacity: 1 KB	white	PMP-RFID/HF (110X38)	0831028	10
UniCard , plastic label with integrated UHF transponder				
1-section, lettering field size: 90 x 38 mm, reading performance: max. 2.0 m, depending on the environment, frequency: 866 - 956 MHz, memory capacity: 496 bit	white	PMP-RFID/UHF (90X38)	0830955	10
1-section, lettering field size: 90 x 38 mm, reading performance: max. 2.0 m, depending on the environment, frequency: 866 - 956 MHz, memory capacity: 496 bit	orange	PMP-RFID/UHF (90X38) OG	0803048	10
1-section, lettering field size: 110 x 38 mm, reading performance: 2.0 m, depending on the environment, frequency: 866 - 956 MHz, memory capacity: 496 bit	white	PMP-RFID/UHF (110X38)	0831029	10

Plant marking

Plant marking for sticking on
or inserting into marker carriers

Can be marked using:



UV LED technology



Unmarked or marked according to
customer specifications

- The UC-PMLP ... UniCard marking range includes self-adhesive markers for plant marking, with good adhesive properties
- The UC-PMP ... UniCard marking range includes markers for plant marking, specially designed to fit into existing CARRIER(L)-PMP ... marker carriers
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The wide temperature range means that the labels can be used both indoors and outdoors
- Marking service: Phoenix Contact can custom-mark many UniCard markers according to your requirements

General data	
Can be marked with	
Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED	
PA	
V2	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
UniCard, with self-adhesive plastic label, 1-section,	
lettering field size: 90 x 38 mm	white
lettering field size: 110 x 38 mm	white
UniCard, plastic label, 1-section	
lettering field size: 90 x 38 mm	white
lettering field size: 90 x 38 mm	yellow
lettering field size: 90 x 38 mm	violet
lettering field size: 90 x 38 mm	blue
lettering field size: 110 x 38 mm	white

Ordering data		
Type	Order No.	Pcs./Pkt.
UC-PMLP (90X38)	0831017	10
UC-PMLP (110X38)	0831020	10



Unmarked or marked according to customer specifications

Technical data		
BLUEMARK ID COLOR • BLUEMARK ID • BLUEMARK CLED		
PA		
V2		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
UC-PMP (90X38)	0831016	10
UC-PMP (90X38) YE	0831046	10
UC-PMP (90X38) VT	0831047	10
UC-PMP (90X38) BU	0831048	10
UC-PMP (110X38)	0831019	10

Plant marking

Marker carriers for UC-PMP... and PMP-RFID... markers



- The CARRIER-PMP (110x38) is designed for mounting the UC-PMP ... and PMP-RFID ... labels. The carrier features snap-in pins which prevent the labels and the PM(S)T markers from falling out.
- The self-adhesive CARRIER/L-PMP-ENCLOSED (110x38) consists of a closed housing and has an adhesive strip on the rear side for direct fixing onto smooth and clean surfaces. For difficult surfaces, it is also possible to fix the carrier with two M5 countersunk screws. The carrier is equipped with detents that prevent the labels and the PM(S)T marker from falling out.
- The CARRIER-PMP-ENCLOSED (110x38) features a closed housing and is designed for the UC-PMP ... and PMP-RFID ... labels. Mounting takes place through the screw connection of two M5 countersunk screws. The marker carrier is equipped with detents that prevent the labels and the PM(S)T marker from falling out.



For mounting with screws, screw clamps or cable ties

General data		Technical data		
Material		PA		
Flammability rating in accordance with UL 94		V0		
Temperature range	[°C]	-40 ... 105		
Wipe resistance		-		
Components		Free from silicone and halogen		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
Marker carrier , for UC-PMP... and PMP-RFID labels that can be inserted, carrier size 110 x 38 mm	black	CARRIER-PMP (110X38)	0831056	10
Closed, self-adhesive marker carrier , for UC-PMP... and PMP-RFID labels that can be inserted, carrier size 110 x 38 mm	black			
Closed marker carrier , for UC-PMP... and PMP-RFID labels that can be inserted, carrier size 110 x 38 mm	black			



For sticking or screwing on



For mounting with screws

Technical data		
PA		
V0		
-40 ... 105		
-		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
CARRIER/L-PMP-ENCLOSED (110X38)	0831062	10

Technical data		
PA		
V0		
-40 ... 105		
-		
Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
CARRIER-PMP-ENCLOSED (110X38)	0831068	10

Plant marking

Fixing material



- The PMT and PMST (10x38) markers for media marking in accordance with DIN 2403 are designed specifically for the CARRIER(/L)-PMP ... (110x38). These are inserted quickly and easily into the marker carriers. The PMST (10x38) sign has a hole for additional fixing into the three different marker carriers. The RVT-PA 3,5 BK fixing rivet serves to secure it.

Notes:
 1) RVT-PA...BK rivet for securing the PMST ... marking labels



Media markers for inserting into marker carriers

General data		Technical data		
Material		PVC		
Flammability rating in accordance with UL 94		-		
Temperature range		-30 ... 80		
Description		Ordering data		
Color		Type	Order No.	Pcs./Pkt.
Marking label for conveyed fluids, for equipping CARRIER-PMP (110x38), CARRIER/L-PMP (110x38), and CARRIER-PMP-ENCLOSED (110x38) in accordance with DIN 2403				
	white	PMT (10X38)	0831086	100
	yellow	PMT (10X38) YE	0831087	100
	orange	PMT (10X38) OG	0831088	100
	red	PMT (10X38) RD	0831089	100
	violet	PMT (10X38) VT	0831090	100
	green	PMT (10X38) GN	0831091	100
	gray	PMT (10X38) GY	0831092	100
	brown	PMT (10X38) BN	0831093	100
	blue	PMT (10X38) BU	0831094	100
	black	PMT (10X38) BK	0831095	100
Marking label for conveyed fluids, with centered hole, for additional attachment with a plastic expanding rivet, for equipping CARRIER-PMP (110x38), CARRIER/L-PMP (110x38), and CARRIER-PMP-ENCLOSED (110x38) in accordance with DIN 2403				
	white			
	yellow			
	orange			
	red			
	violet			
	green			
	gray			
	brown			
	blue			
	black			
Plastic body-bound rivet , 3.5 mm diameter ¹⁾				
Mounting strip , can be screwed, for CARRIER-PMP ...				



Media markers for additional fixing
with rivets



Rivet for attaching the PMST markers



Screw clamp for attachment to pipes

Technical data
PVC
-
-30 ... 80

Ordering data		
Type	Order No.	Pcs./Pkt.

PMST (10X38)	0831076	100
PMST (10X38) YE	0831077	100
PMST (10X38) OG	0831078	100
PMST (10X38) RD	0831079	100
PMST (10X38) VT	0831080	100
PMST (10X38) GN	0831081	100
PMST (10X38) GY	0831082	100
PMST (10X38) BN	0831083	100
PMST (10X38) BU	0831084	100
PMST (10X38) BK	0831085	100

Technical data
PVC
V0
-30 ... 80

Ordering data		
Type	Order No.	Pcs./Pkt.

RVT-PA 3,5 BK	0830959	100

Technical data
Chromium steel 1.4016
-
-

Ordering data		
Type	Order No.	Pcs./Pkt.

SCRT 9X16-27	0830970	50
SCRT 9X25-40	0830971	50
SCRT 9X40-60	0830972	25
SCRT 9X60-80	0830973	25
SCRT 9X80-100	0830974	25
SCRT 9X100-120	0830975	25
SCRT 9X140-160	0830976	25
SCRT 9X160-180	0830977	25
SCRT 9X180-200	0830978	25

Plant marking

UniSheet – stick-on warning labels, unmarked

Can be marked using:



UV LED technology



Thermal transfer

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

The unmarked US-PML warning labels allow you to create custom warning notices. A wide range of symbols are available in the PROJECT complete software. The warning labels offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The warning labels conform to the ISO 7010 international standard
- The format automatically ensures printing with a high degree of positioning accuracy
- Marking service: Phoenix Contact can custom-mark all US-PML ... warning labels according to your requirements
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
UniSheet , with self-adhesive warning labels, triangular	
24-section, side length: 25 mm	yellow/black
6-section, side length: 50 mm	yellow/black
1-section, side length: 100 mm	yellow/black
UniSheet , with self-adhesive warning labels, triangular with additional rectangular lettering field	
16-section, side length: 25 mm	yellow/black
4-section, side length: 50 mm	yellow/black
1-section, side length: 100 mm	yellow/black

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials
Ink ribbon cassette for THERMOMARK PRIME, ink color: black, length: 70 m, width: 110 mm

Adapter plate for BLUEMARK ID, for accommodating US materials

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME
• THERMOMARK CARD 2.0 • THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Type	Order No.	Pcs./Pkt.
US-PML-W100 (25X25)	1014125	10
US-PML-W100 (50X50)	1014126	10
US-PML-W100 (100X100)	1014127	10
US-PML-W200 (25X25)	1014131	10
US-PML-W200 (50X50)	1014132	10
US-PML-W200 (100X100)	1014133	10

Accessories

TMP-US-MAG1	0803341	1
TMP-RIBBON 110 BK 100	0803374	1
BM ID-ADAPTER PLATE-US	1044355	1

UniSheet – stick-on prohibition signs, color preprinted without symbols

Can be marked using:



UV LED technology



Thermal transfer

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

- The color preprinted US PML-P prohibition signs on US cards allow you to create custom prohibition notices
- A wide range of symbols are available in the PROJECT complete software
- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The perforated markers are easy to separate
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many US-PML ... markers according to your requirements

General data

Can be marked with

Material

Temperature range

Wipe resistance

Components

[°C]

Description	Color

Prohibition sign, color preprinted, without symbols

4-section, diameter: 50 mm	red/white
1-section, diameter: 100 mm	red/white

Ink ribbon for THERMOMARK CARD..., ink color: black, length: 300 m, width: 110 mm

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Ink ribbon cassette for THERMOMARK PRIME, ink color: black, length: 70 m, width: 110 mm

Adapter plate for BLUEMARK ID, for accommodating US materials

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME
• THERMOMARK CARD 2.0 • THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Type	Order No.	Pcs./Pkt.
US-PML-P100 (D50)	1014217	10
US-PML-P100 (D100)	1014218	10

Accessories

	Order No.	Pcs./Pkt.
THERMOMARK-RIBBON 110-TC	0801371	1
TMP-US-MAG1	0803341	1
TMP-RIBBON 110 BK 100	0803374	1
BM ID-ADAPTER PLATE-US	1044355	1

Notes:

For accessories, visit phoenixcontact.net/products

Marking and labeling – MARKING system

Plant marking

UniSheet – stick-on mandatory signs, color preprinted, without symbols

Can be marked using:



Thermal transfer

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

The unmarked US-PML-M mandatory signs on US cards allow you to create custom information signs. A wide range of symbols are available in the PROJECT complete software.

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The perforated markers are easy to separate
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- Marking service: Phoenix Contact can custom-mark many US-PML ... markers according to your requirements

General data

Can be marked with

Material

Temperature range

Wipe resistance

Components

[°C]

THERMOMARK PRIME • THERMOMARK CARD 2.0 • THERMOMARK CARD

PVC

-40 ... 90

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

Ordering data

Description	Color
Mandatory sign , color preprinted, without symbols	
4-section, diameter: 50 mm	blue/white
1-section, diameter: 100 mm	blue/white

Type	Order No.	Pcs./Pkt.
US-PML-M100 (D50)	1014176	10
US-PML-M100 (D100)	1014177	10

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Ink ribbon for roll printer and THERMOMARK CARD,
ink color: white, length: 60 m, width: 110 mm

white

Ink ribbon cassette for THERMOMARK PRIME, ink color: white,
length: 60 m, width: 110 mm

white

Accessories

	Order No.	Pcs./Pkt.
TMP-US-MAG1	0803341	1
TM-RIBBON 110 WH 100	0804661	1
TMP-RIBBON 110 WH 100	0803376	1

Adhesive label for marking EMERGENCY STOP buttons



The unmarked US-PML-ESS ... allow you to create custom emergency stop buttons in different languages.

A wide range of different country-specific templates are available in the PROJECT complete software.

The marking material offers the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The format automatically ensures printing with a high degree of positioning accuracy
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...

Can be marked using:



UV LED technology



Thermal transfer



Unmarked

General data

Can be marked with

Material

Temperature range

Wipe resistance

Components

[°C]

Description

Color

UniSheet, with self-adhesive EMERGENCY STOP marking:

1-section, outside diameter: 60 mm, inside diameter: 25 mm

yellow

1-section, outside diameter: 90 mm, inside diameter: 24 mm

yellow

Ink ribbon for THERMOMARK CARD..., ink color: black, length: 300 m, width: 110 mm

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Ink ribbon cassette for THERMOMARK PRIME, ink color: black, length: 70 m, width: 110 mm

Adapter plate for BLUEMARK ID, for accommodating US materials

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME
• THERMOMARK CARD 2.0 • THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Type	Order No.	Pcs./Pkt.
US-PML-ESS100 (D60) YE	0803873	10
US-PML-ESS100 (D90) YE	0803872	10

Accessories

	Order No.	Pcs./Pkt.
THERMOMARK-RIBBON 110-TC	0801371	1
TMP-US-MAG1	0803341	1
TMP-RIBBON 110 BK 100	0803374	1
BM ID-ADAPTER PLATE-US	1044355	1

Marking and labeling – MARKING system

Plant marking

Adhesive label for marking fire alarm systems

Can be marked using:



UV LED technology



Thermal transfer



Unmarked

The unmarked US-PML-F ... fire alarm signs on US cards enable custom creation of fire protection signs.

Fire protection signs are manufactured in accordance with DIN 4066 or DIN 4844. The signs are available in round or rectangular format, enabling your company to satisfy the relevant legal requirements.

The marking material offers the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...

General data

Can be marked with

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME
• THERMOMARK CARD 2.0 • THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color
UniSheet , with self-adhesive fire alarm labels, color preprinted:	
10-section, lettering field size: 40 x 15 mm	red/white
4-section, diameter: 50 mm, lettering field size: 40 x 20 mm	red/white
UniSheet , with self-adhesive fire alarm labels, color preprinted:	
Lettering field size :40 x 15 mm	blue/white
Diameter: 50 mm, lettering field size: 40 x 20 mm	blue/white

Type	Order No.	Pcs./Pkt.
US-PML-F100 (50X25)	0803866	10
US-PML-F100 (D50)	0803869	10
US-PML-F200 (50X25)	0803868	10
US-PML-F200 (D50)	0803871	10

Accessories

Ink ribbon for THERMOMARK CARD..., ink color: black, length: 300 m, width: 110 mm

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Ink ribbon cassette for THERMOMARK PRIME, ink color: black, length: 70 m, width: 110 mm

Adapter plate for BLUEMARK ID, for accommodating US materials

	Order No.	Pcs./Pkt.
THERMOMARK-RIBBON 110-TC	0801371	1
TMP-US-MAG1	0803341	1
TMP-RIBBON 110 BK 100	0803374	1
BM ID-ADAPTER PLATE-US	1044355	1

UniSheet – stick-on hazardous substances labels, color preprinted, without symbols

Can be marked using:



UV LED technology



Thermal transfer



Unmarked



The unmarked US-PML-GHS hazardous substances labels on US cards allow you to create custom information signs. A wide range of symbols are available in the PROJECT complete software.

- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- The markers conform to the GHS international standard
- The marking systems mark the markers, which are supplied in uniform sheets, quickly, easily, and cost-effectively
- The magazine geometry automatically ensures printing with a high degree of positioning accuracy
- The perforated markers are easy to separate
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	

Description	Color

UniSheet, with self-adhesive hazardous substance labels:

50-section, marker size: 13 x 13 mm	red/white
9-section, marker size: 25 x 25 mm	red/white

Ink ribbon for THERMOMARK CARD..., ink color: black, l
ength: 300 m, width: 110 mm

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials

Ink ribbon cassette for THERMOMARK PRIME, ink color: black,
length: 70 m, width: 110 mm

Adapter plate for BLUEMARK ID, for accommodating
US materials

Technical data

BLUEMARK ID COLOR • BLUEMARK ID • THERMOMARK PRIME
• THERMOMARK CARD 2.0 • THERMOMARK CARD
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Type	Order No.	Pcs./Pkt.
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Accessories

Type	Order No.	Pcs./Pkt.
THERMOMARK-RIBBON 110-TC	0801371	1
TMP-US-MAG1	0803341	1
TMP-RIBBON 110 BK 100	0803374	1
BM ID-ADAPTER PLATE-US	1044355	1

Plant marking

Stick-on prohibition signs, color preprinted, without symbols



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

The color preprinted PML-P prohibition signs without symbols allow you to create custom prohibition notices. A wide range of symbols are available in the PROJECT complete software.

- The label consists of soft, highly flexible PVC film that molds itself to uneven surfaces
- Outdoor-durable for up to eight years when used in a temperature range from -40°C to 90°C
- Extremely high-quality appearance
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- The prohibition signs conform to international standard ISO 7010
- Marking service: Phoenix Contact can custom-mark many PML ... markers according to your requirements
- **Designation example:**
PML-P100 (D50)R
Preprinted color: red
Diameter: 50 mm
Type of packaging: roll

General data

Can be marked with

Material
Temperature range
Wipe resistance
Components

[°C]

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description

Color

Prohibition sign, color preprinted, without symbol, can be marked with thermal transfer printer

1 roll = 500 labels, diameter: 50 mm

red/white

1 roll = 500 labels, diameter: 100 mm

red/white

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Technical data

Ordering data

Type	Order No.	Pcs./Pkt.
PML-P100 (D50)R	1014225	1
PML-P100 (D100)R	1014226	1

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1

Stick-on mandatory signs, color preprinted, without symbols



Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to
customer specifications

The color preprinted PML-M ... mandatory signs without symbols allow you to create custom mandatory notices. A wide range of symbols are available in the PROJECT complete software.

- The label consists of soft, highly flexible PVC film that molds itself to uneven surfaces
- Outdoor-durable for up to eight years when used in a temperature range from -40°C to 90°C
- Extremely high-quality appearance
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- The mandatory signs conform to the ISO 7010 international standard
- Marking service: Phoenix Contact can custom-mark many markers according to your requirements
- **Designation example:**
PML-M100 (D50)R
Preprinted color: blue
Diameter: 50 mm
Type of packaging: roll

General data

Can be marked with

Material
Temperature range
Wipe resistance
Components

[°C]

Description

Color

Mandatory sign, color preprinted, without symbol,
can be marked with thermal transfer printer
1 roll = 500 labels, diameter: 50 mm

white/blue

1 roll = 500 labels, diameter: 100 mm

white/blue

Ink ribbon for roll printer and THERMOMARK CARD,
ink color: white, length: 60 m, width: 110 mm

Technical data

THERMOMARK ROLLMARKER 300 • THERMOMARK ROLLMARKER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Type	Order No.	Pcs./Pkt.
PML-M100 (D50)R	1014180	1
PML-M100 (D100)R	1014181	1

Accessories

TM-RIBBON 110 WH 100	0804661	1

Plant marking

Stick-on hazardous substances labels, color preprinted, without symbols

Can be marked using:



Thermal transfer for rolls



Unmarked

The color preprinted PML-GHS ... hazardous substance labels without symbols allow you to create custom hazard notices. A wide range of symbols are available in the PROJECT complete software.

- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- The markers conform to the GHS international standard

– **Designation example:**
PML-GHS100 (13x13)R
 Preprinted color: red
 Side length: 13 mm
 Type of packaging: roll

General data

Can be marked with

Material
 Temperature range [°C]
 Wipe resistance

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
 -40 ... 150
 DIN EN 61010-1 (VDE 0411-1)

Ordering data

Type	Order No.	Pcs./Pkt.
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1

Description	Color
Hazardous substance label , roll, red/white, preprinted, can be marked with roll printers 1 roll = 500 labels, marker size: 13 x 13 mm	white/red
1 roll = 500 labels, marker size: 25 x 25 mm	white/red

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Stick-on warning labels, unmarked



Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

The color preprinted PML warning labels without symbols allow you to create custom warning notices. A wide range of symbols are available in the PROJECT complete software.

- The label consists of soft, highly flexible PVC film that molds itself to uneven surfaces
- Outdoor-durable for up to eight years when used in a temperature range from -40°C to 90°C
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- The warning labels conform to the ISO 7010 international standard
- Marking service: Phoenix Contact can custom-mark many PML ... warning labels according to your requirements
- **Designation example:**
PML-W100 (25x25)R
Preprinted color: black
Side length: 25 mm
Type of packaging: roll

General data

Can be marked with

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color

Warning label , triangular, can be marked with thermal transfer printer	
1 roll = 500 labels, side length: 25 mm	yellow/black
1 roll = 500 labels, side length: 50 mm	yellow/black
1 roll = 250 labels, side length: 100 mm	yellow/black

Warning label , triangular, additional rectangular lettering field	
1 roll = 500 labels, side length: 25 mm	yellow/black
1 roll = 500 labels, side length: 50 mm	yellow/black
1 roll = 250 labels, side length: 100 mm	yellow/black

Warning label , rectangular	
1 roll = 500 labels, width: 52 mm, height: 26 mm	yellow
1 roll = 500 labels, width: 74 mm, height: 37 mm	yellow
1 roll = 250 labels, width: 105 mm, height: 52 mm	yellow

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Type	Order No.	Pcs./Pkt.
PML-W100 (25X25)R	0830429	1
PML-W100 (50X50)R	0830430	1
PML-W100 (100X100)R	0830431	1
PML-W200 (25X25)R	0830451	1
PML-W200 (50X50)R	0830452	1
PML-W200 (100X100)R	0830453	1
PML-W300 (52X26)R	0830458	1
PML-W300 (74X37)R	0830459	1
PML-W300 (105X52)R	0830460	1

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1

Plant marking

Stick-on warning labels, triangular with lightning flash

The PML warning labels are available with various warning instructions. The warning labels offer the following features:

- Printed cards
- Suitable for indoor and outdoor use
- The warning labels conform to the ISO 7010 international standard
- PML-W400 and PML-WV501 are color preprinted warning labels which can be printed again with thermal transfer roll printers



Pre-printed with lightning flash



Pre-printed with lightning flash and voltage information

General data			Technical data			Technical data		
Material			PVC			PVC		
Temperature range	[°C]		-40 ... 90			-40 ... 90		
Wipe resistance			DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components			Silicone-free			Silicone-free		
Ordering data			Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.		Type	Order No.	Pcs./Pkt.
Warning label , triangular, with lightning flash								
1 sheet = 25 labels, side length: 25 mm	yellow/black	PML-W101 (25X25)	0830433	5				
1 sheet = 9 labels, side length: 50 mm	yellow/black	PML-W101 (50X50)	0830434	5				
1 sheet = 9 labels, side length: 100 mm	yellow/black	PML-W101 (100X100)	0830435	5				
Warning label , triangular, with lightning flash, additional rectangular lettering field, printed text: 230 V								
1 sheet = 16 labels, side length: 25 mm	yellow/black					PML-W202 (25X25)	0830437	5
1 sheet = 1 label, side length: 200 mm	yellow/black					PML-W205 (200X200)	0830450	5
Warning label , rectangular, with lightning flash, printed text in German/English: "Danger! High voltage when main switch is off"								
1 sheet = 4 labels, W x H: 52 x 26 mm	yellow/black							
1 sheet = 3 labels, W x H: 74 x 37 mm	yellow/black							
1 sheet = 4 labels, W x H: 105 x 52 mm	yellow/black							
Warning label , rectangular, color preprinted, can be marked with thermal transfer printer								
1 roll = 48 m continuous, height: 77 mm								
Hazard label , rectangular, color preprinted, can be marked with thermal transfer printer								
1 roll = 100 labels	white/red							
1 roll = 100 labels	white/red							



Pre-printed with lightning flash and warning notice



Unmarked



Unmarked

Technical data		
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free		
Ordering data		
Type	Order No.	Pcs./Pkt.
PML-W301 (52X26)	0830461	5
PML-W301 (74X37)	0830462	5
PML-W301 (105X52)	0830463	5

Technical data		
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free		
Ordering data		
Type	Order No.	Pcs./Pkt.
PML-W400 (58/19XE)R WH-OG	1016499	1

Technical data		
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free		
Ordering data		
Type	Order No.	Pcs./Pkt.
PML-W501 (100X48)R WH-RD	1016507	1
PML-W501 (100X65)R WH-RD	1016508	1

Plant marking

Stick-on pipeline markers, unmarked



The color preprinted PML-T ... pipeline markers allow you to create custom pipelines in accordance with DIN 2403.

- Finely perforated arrowheads enable the arrowheads which are not required to be easily removed
- When used in combination with the PML-GHS hazardous substances labels, marking conforming to the Hazardous Substances Ordinance (GefStoffV) is possible
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many markers according to your requirements
- **Designation example:**
PML-T101 (26x280)R
 Preprinted color: ...
 Lettering field length: 280 mm
 Lettering field height: 26 mm
 Type of packaging: roll

Can be marked using:



Thermal transfer for rolls

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FOR YOU



Group 1 (water)

General data			Technical data		
Can be marked with			THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester		
Material			-40 ... 150		
Temperature range			DIN EN 61010-1 (VDE 0411-1)		
Wipe resistance					
Ordering data			Ordering data		
Description	Color		Type	Order No.	Pcs./Pkt.
Pipeline markers, green, group 1 (water), unprinted, can be marked with thermal transfer printer					
1 roll = 250 labels, marker size: 26 x 280 mm	green		PML-T101 (26X280)R	1014229	1
1 roll = 250 labels, marker size: 52 x 560 mm	green		PML-T101 (52X560)R	1014230	1
Pipeline markers, red, group 2 (steam), unprinted, can be marked with thermal transfer printer					
1 roll = 250 labels, marker size: 26 x 280 mm	red				
1 roll = 250 labels, marker size: 52 x 560 mm	red				
Pipeline markers, gray, group 3 (air), unprinted, can be marked with thermal transfer printer					
1 roll = 250 labels, marker size: 26 x 280 mm	gray				
1 roll = 250 labels, marker size: 52 x 560 mm	gray				
Pipeline markers, yellow/red, group 4 (combustible gases), unprinted, can be marked with thermal transfer printer					
1 roll = 250 labels, marker size: 26 x 280 mm	yellow/red				
1 roll = 250 labels, marker size: 52 x 560 mm	yellow/red				
Accessories			Accessories		
Ink ribbon for roll printer and THERMOMARK CARD, ink color: white, length: 60 m, width: 110 mm					
			TM-RIBBON 110 WH 100	0804661	1
Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm					
Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm					
Hazardous substance label, roll, red/white, preprinted, can be marked with roll printers					
1 roll = 500 labels, marker size: 13 x 13 mm			PML-GHS100 (13X13)R	1014289	1
1 roll = 500 labels, marker size: 25 x 25 mm			PML-GHS100 (25X25)R	1014290	1
UniSheet, with self-adhesive hazardous substance labels:					
50-section, marker size: 13 x 13 mm			US-PML-GHS100 (13X13)	1014287	10
9-section, marker size: 25 x 25 mm			US-PML-GHS100 (25X25)	1014288	10



Group 2 (steam)



Group 3 (air)



Group 4 (combustible gases)

Technical data
THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs./Pkt.
PML-T102 (26X280)R	1014231	1
PML-T102 (52X560)R	1014232	1

Accessories		
TM-RIBBON 110 WH 100	0804661	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Technical data
THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs./Pkt.
PML-T103 (26X280)R	1014233	1
PML-T103 (52X560)R	1014234	1

Accessories		
THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Technical data
THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs./Pkt.

PML-T104 (26X280)R	1014235	1
PML-T104 (52X560)R	1014236	1

Accessories		
THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Plant marking

Stick-on pipeline markers, unmarked



The color preprinted PML-T ... pipeline markers allow you to create custom pipelines in accordance with DIN 2403.

- Finely perforated arrowheads enable the arrowheads which are not required to be easily removed
- In combination with the PML-GHS hazardous substances labels, marking which conforms to the Ordinance on Hazardous Substances (GefStoffV) can be applied
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many markers according to your requirements
- **Designation example:**
PML-T101 (26x280)R
Preprinted color: ...
Lettering field length: 280 mm
Lettering field height: 26 mm
Type of packaging: roll

Can be marked using:



Thermal transfer for rolls



Group 5 (non-combustible gases)

General data

Can be marked with

Material
Temperature range
Wipe resistance

[°C]

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Description	Color
Pipeline markers, yellow/black, group 5 (non-combustible gases), unprinted, can be marked with thermal transfer printer	
1 roll = 250 labels, marker size: 26 x 280 mm	yellow/black
1 roll = 250 labels, marker size: 52 x 560 mm	yellow/black
Pipeline markers, orange, group 6 (acids), unprinted, can be marked with thermal transfer printer	
1 roll = 250 labels, marker size: 26 x 280 mm	orange
1 roll = 250 labels, marker size: 52 x 560 mm	orange
Pipeline markers, violet, group 7 (alkalis), unprinted, can be marked with thermal transfer printer	
1 roll = 250 labels, marker size: 26 x 280 mm	violet
1 roll = 250 labels, marker size: 52 x 560 mm	violet
Pipeline markers, brown/red, group 8 (combustible liquids), unprinted, can be marked with thermal transfer printer	
1 roll = 250 labels, marker size: 26 x 280 mm	brown/red
1 roll = 250 labels, marker size: 52 x 560 mm	brown/red

Type	Order No.	Pcs./Pkt.
PML-T105 (26X280)R	1014237	1
PML-T105 (52X560)R	1014238	1

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Ink ribbon for roll printer and THERMOMARK CARD, ink color: white, length: 60 m, width: 110 mm

Hazardous substance label, roll, red/white, preprinted, can be marked with roll printers
1 roll = 500 labels, marker size: 13 x 13 mm

1 roll = 500 labels, marker size: 25 x 25 mm

UniSheet, with self-adhesive hazardous substance labels:

50-section, marker size: 13 x 13 mm
9-section, marker size: 25 x 25 mm

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10



Group 6 (acids)



Group 7 (alkalis)



Group 8 (combustible liquids)

Technical data
THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs./Pkt.
PML-T106 (26X280)R	1014239	1
PML-T106 (52X560)R	1014240	1

Accessories		
THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Technical data
THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs./Pkt.
PML-T107 (26X280)R	1014241	1
PML-T107 (52X560)R	1014242	1

Accessories		
TM-RIBBON 110 WH 100	0804661	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Technical data
THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs./Pkt.

PML-T108 (26X280)R	1014243	1
PML-T108 (52X560)R	1014244	1

Accessories		
TM-RIBBON 110 WH 100	0804661	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Plant marking

Stick-on pipeline markers, unmarked



The color preprinted PML-T ... pipeline markers allow you to create custom pipelines in accordance with DIN 2403.

- Finely perforated arrowheads enable the arrowheads which are not required to be easily removed
- In combination with the PML-GHS hazardous substances labels, marking which conforms to the Ordinance on Hazardous Substances (GefStoffV) can be applied
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark many markers according to your requirements
- **Designation example:**
PML-T101 (26x280)R
Preprinted color: ...
Lettering field length: 280 mm
Lettering field height: 26 mm
Type of packaging: roll

Can be marked using:



Thermal transfer for rolls



Group 9 (non-combustible liquids)

General data

Can be marked with

Material
Temperature range
Wipe resistance

[°C]

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Description	Color
Pipeline markers , brown/black, group 9 (non-combustible liquids), unprinted, can be marked with thermal transfer printer	
1 roll = 250 labels, marker size: 26 x 280 mm	brown/black
1 roll = 250 labels, marker size: 52 x 560 mm	brown/black
Pipeline markers , blue, group 0 (oxygen), unprinted, can be marked with thermal transfer printer	
1 roll = 250 labels, marker size: 26 x 280 mm	blue
1 roll = 250 labels, marker size: 52 x 560 mm	blue

Type	Order No.	Pcs./Pkt.
PML-T109 (26X280)R	1014245	1
PML-T109 (52X560)R	1014246	1

Ink ribbon for roll printer and THERMOMARK CARD, ink color: white, length: 60 m, width: 110 mm

Hazardous substance label, roll, red/white, preprinted, can be marked with roll printers
1 roll = 500 labels, marker size: 13 x 13 mm

1 roll = 500 labels, marker size: 25 x 25 mm

UniSheet, with self-adhesive hazardous substance labels:

50-section, marker size: 13 x 13 mm
9-section, marker size: 25 x 25 mm

Accessories

TM-RIBBON 110 WH 100	0804661	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10



Group 0 (oxygen)

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Type	Order No.	Pcs./Pkt.
PML-T110 (26X280)R	1014247	1
PML-T110 (52X560)R	1014248	1

Accessories

TM-RIBBON 110 WH 100	0804661	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Plant marking

Stick-on circuit markings, color preprinted, without symbol

Can be marked using:



Thermal transfer for rolls



The color preprinted PML-C (D39)R labels on a roll allow you to create custom circuit markings.

- The label consists of soft, highly flexible PVC film that molds itself to uneven surfaces
- Outdoor-durable for up to eight years when used in a temperature range from -40°C to 90°C
- Extremely high-quality appearance
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions

– **Designation example:**

PML-C101 (D39)R

Preprinted color: red

Diameter: 39 mm

Type of packaging: roll



Unmarked

new

General data

Can be marked with

Material

Temperature range

[°C]

Wipe resistance

Description

Color

Circuit identification label, round, color preprinted, can be marked with thermal transfer printer

white/red

Ink ribbon for roll printer, ink color: black, length: 300 m, width: 110 mm

Ink ribbon for roll printer, ink color: black, length: 50 m, width: 110 mm

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL PVC
50 ... 90
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Type	Order No.	Pcs./Pkt.
PML-C101 (D39)R	1032780	1

Accessories

THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1

Magnetic labels, unprinted

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

The PMM ... magnetic continuous markers supplied in rolls provide an individual and flexible marking solution, e.g., for marking stock. A wide range of symbols, linear codes, and 2D codes are available in the PROJECT complete software.

- High adhesive strength
- The flexible magnetic tape will also adhere to round objects with a radius of 12 mm and higher
- Quick and cost-effective marking with THERMOMARK ... roll printers from Phoenix Contact
- The thermal transfer printer cutting units make it possible to quickly and cleanly trim equipment markings precisely to the required length
- When combined with the right ink ribbon, the marking is highly resistant to solvents and mechanical influences, and can also be used under harsh industrial conditions
- **Designation example:**
PMM (Ex20)R
Lettering field width: continuous
Lettering field height: 20 mm
Type of packaging: roll

General data

Can be marked with

Material
Temperature range [°C]
Wipe resistance

Technical data

THERMOMARK ROLLMASTER 300 • THERMOMARK ROLLMASTER 600 • THERMOMARK X1.2 • THERMOMARK ROLL X1 • THERMOMARK ROLL 2.0 • THERMOMARK ROLL
Magnetic tape
-30 ... 55
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Magnetic tape as continuous material , anisotropic, can be marked with thermal transfer printer, strip length: up to 1000 mm 1 roll = 15 m continuous, height: 20 mm	white	PMM (EX20)R	1014303	1
	silver	PMM (EX20)R SR	1014304	1
	yellow	PMM (EX20)R YE	1014305	1
Magnetic tape as continuous material , anisotropic, can be marked with thermal transfer printer, strip length: up to 1000 mm 1 roll = 15 m continuous, height: 25 mm	white	PMM (EX25)R	1014306	1
	silver	PMM (EX25)R SR	1014307	1
	yellow	PMM (EX25)R YE	1014308	1
Magnetic tape as continuous material , anisotropic, can be marked with thermal transfer printer, strip length: up to 1000 mm 1 roll = 15 m continuous, height: 30 mm	white	PMM (EX30)R	1014309	1
	silver	PMM (EX30)R SR	1014310	1
	yellow	PMM (EX30)R YE	1014311	1
Magnetic tape as continuous material , anisotropic, can be marked with thermal transfer printer, strip length: up to 1000 mm 1 roll = 15 m continuous, height: 40 mm	white	PMM (EX40)R	1014312	1
	silver	PMM (EX40)R SR	1014313	1
	yellow	PMM (EX40)R YE	1014314	1
Magnetic tape as continuous material , anisotropic, can be marked with thermal transfer printer, strip length: up to 1000 mm 1 roll = 15 m continuous, height: 50 mm	white	PMM (EX50)R	1014315	1
	silver	PMM (EX50)R SR	1014316	1
	yellow	PMM (EX50)R YE	1014317	1

Accessories

Ink ribbon for roll printer , ink color: black, length: 300 m, width: 110 mm		+
Ink ribbon for roll printer , ink color: black, length: 50 m, width: 110 mm		
THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110/50	0800687	1



Hand tools – TOOL fox

The TOOL fox range of tools offers processing and measuring tools for all electrical engineering applications.

The ergonomically designed tools for cutting, stripping, crimping, screwing, and testing impress with their optimum handling and quality. Specially hardened tool steels ensure maximum durability.

Cutting machines, stripping machines, and crimping machines are available which can be used to automate steps.

A wide range of connectors rounds off the product range.

Product range overview

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Professional cutting



Professional stripping



Professional crimping



There is an optimum cable cutter available for every application. The various versions enable professional processing of conductors and cables with a diameter of up to 100 mm. All parts of the cable cutters that are subject to particular strain are tempered and specially hardened.



Profile cutters are available for rapid processing of DIN rails and cable ducts without chips or burrs. An optional hydraulic unit can be attached to convert manual DIN rail cutters into automatic ones.



The stripping tools can strip all types of conductors and cables quickly, precisely, and reliably. They adapt automatically to the conductor cross section concerned.



The CRIMPFOX 4 IN 1 are multifunctional crimping pliers for processing conductors and ferrules. A variety of work steps can be performed with just a single tool: cutting, stripping, twisting, and crimping.



The product innovation for switchgear manufacturing is the CRIMPHANDY, a battery-powered, portable hand-held device. The CRIMPHANDY strips and crimps the conductor in under two seconds. This results in time savings of 75%.



The extensive range of professional crimping pliers can be used to process a variety of contact types with a cross section of up to 120 mm². The innovative design and ergonomically shaped handles reduce the forces required by up to 30 percent.



With their interchangeable dies, the CRIMPFOX-M universal crimping pliers can be used to process all kinds of contacts. The dies can be changed quickly and easily without the need for additional tools.



With their precise torque-setting, the torque and cordless screwdrivers are the perfect complement to the Phoenix Contact range of screw terminal blocks. The wide range of hardened BIT screwdriver inserts makes the products suitable for universal use.



Our multimeters, current pliers, and voltage testers are high-quality measuring tools, which have been tested and approved in accordance with national and international standards.

Tools – TOOL fox

Hand tools

CUTFOX cable cutters

- CUTFOX ... cable cutters for professional cutting results
- Ideal cutting geometries enable the lowest actuation forces
- Ergonomic handle design to eliminate fatigue when working
- All parts of the cable cutters that are subject to particular strain are tempered or specially hardened



Up to a maximum conductor diameter of 12 mm



Up to a maximum conductor diameter of 18 mm

Description
Cable cutter , for copper and aluminum (flexible) up to 12 mm diameter (up to 35 mm ²), size: 165 mm
Cable cutter , angled, with adjustable screw joint, for copper and aluminum (flexible) up to 18 mm diameter (up to 50 mm ²), size: 180 mm
Electrician's scissors , high cutting performance, thanks to micro-serrated cutting area, suitable for copper, aluminum (flexible), Kevlar® fibers, and plastic, two-component non-slip soft-grip handles, ergonomic design, adjustable screw joint

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX 12	1212128	1
CUTFOX-ES	1212621	1

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX 18	1212129	1

CUTFOX one-handed ring cable cutters

- CUTFOX ... one-handed ring cable cutters for professional cutting results
- Extremely robust design
- Minimum deformation of the conductors and cables
- Can be released in all positions
- Superb cutting quality
- Little force needed due to ratchet function



Up to a maximum conductor diameter of 50 mm, steel-armored



Up to a maximum conductor diameter of 45 mm

Description
Ring cable cutter , with ratchet function, for copper and aluminum (flexible) up to a diameter of 50 mm, for steel-armored CU/AL cables, for stranded steel cables up to a diameter of 12 mm, equipped with needle bearings, size: 260 mm
Ring cable cutter , with ratchet function, for copper and aluminum (flexible) up to 45 mm diameter (up to 300 mm ²), size: 260 mm
Ring cable cutter , with ratchet function, for copper and aluminum (flexible) up to 52 mm diameter (up to 300 mm ²), size: 325 mm

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX 50 STEEL	1212526	1

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX 45	1212132	1
CUTFOX 52	1212133	1

Accessories		
CUTFOX 50 STEEL/SB	1200291	1

Accessories		

CUTFOX one-handed front cable cutters

- CUTFOX ... cable cutters for professional cutting results
- With ratchet function for minimum effort
- All parts of the cable cutters that are subject to particular strain are tempered or specially hardened
- Ideal in tight workspaces
- Adjustable screw joint
- Can be released in all positions
- Particularly robust



Up to a maximum conductor diameter of 25 mm



Up to a maximum conductor diameter of 35 mm

Description
Cable cutter , with ratchet function, for copper and aluminum (flexible) up to 25 mm diameter (up to 185 mm ²), size: 245 mm
Cable cutter , with ratchet function, for copper and aluminum (flexible) up to 35 mm diameter (up to 240 mm ²), size: 245 mm

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX 25	1212130	1

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX 35	1212131	1

CUTFOX two-handed ring cable cutters

- CUTFOX ... two-handed ring cable cutters for professional cutting results
- Suitable for conductors with a diameter of up to 100 mm
- With ratchet function for minimum effort
- Can be released in all positions
- Superb cutting quality
- Extremely robust design
- Lowest possible deformation of conductors and cables



Up to a maximum conductor diameter of 62 mm



Up to a maximum conductor diameter of 100 mm

Description
Two-handed ring cable cutter , with ratchet function, for copper and aluminum (flexible) up to 62 mm diameter (up to 750 mm ²), size: 410 mm
Two-handed ring cable cutter , with ratchet function, for copper and aluminum (flexible) up to 100 mm diameter (up to 1400 mm ²), size: 610 mm

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX 62	1212134	1

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX 100	1212135	1

Tools – TOOL fox

Hand tools

Cutting tools for special applications

- The CUTFOX-FBS cutting tool is suitable for cutting out individual bars from FBS ... plug-in bridges
- Screw-on bridges can be cut to length with the CUTFOX FB without crushing them



Front cutting tool for cutting out plug-in and insertion bridges



Cutting tool for screw-on bridges

Description
Cutting tool , for separating individual bridge bars from FBS ... plug-in bridges and EB ... insertion bridges, size: 260 mm
Bridge cutting tool , for cutting FBI ... fixed bridges to length, size: 165 mm

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX-FBS	1212124	1

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX FB	1205985	1

Cutting tools for special applications

- VDE-tested cutting tools made from special high-grade tool steel
- Inductively hardened blades for long-term stable cutting performance



Cable cutter for conductors with a diameter of up to 16 mm (VDE)



Cable cutter for conductors with a diameter of up to 25 mm (VDE)

Description
Cable cutter , precision blade with macro-notching, for copper and aluminum (flexible) up to 50 mm ² , VDE 1000 V AC/1500 V DC tested, size: 160 mm
Cable cutter , precision blade with macro-notching, for copper and aluminum (flexible) up to 70 mm ² , VDE 1000 V AC/1500 V DC tested, size: 210 mm
Cable cutter , for laminated busbars/ribbed tape measuring up to 6 x 16 x 0.8 mm, copper and aluminum cables (flexible) with a diameter of up to 25 mm, VDE 1000 V AC, 1500 V DC, size: 210 mm

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX 16 VDE	1212126	1

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX 25 VDE	1212127	1
CUTFOX-LB VDE	1212527	1

Cutting tools for special applications

- VDE-tested cutting tools made from special high-grade tool steel
- Inductively hardened blades for long-term stable cutting performance



Diagonal cutter (VDE)



Diagonal cutter (VDE)

Ordering data				Ordering data		
Description	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Diagonal cutter , with optimized leverage, VDE 1000 V AC/1500 V DC tested, size: 160 mm	CUTFOX-S VDE	1212207	1			
Diagonal cutter , with optimized leverage, VDE 1000 V AC/1500 V DC tested, size: 130 mm				CUTFOX-S VDE M	1212830	1

Automatic cutting device for conductors and cables



Notes:

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.

Conductor cross sections from 0.08 to 10 mm²

Ordering data			
Description	Type	Order No.	Pcs./Pkt.
	CUTFOX 10	1206829	1

- The automatic cutting device can be used to cut conductors, cables, and similar profiles
- It impresses with its easy handling and enables materials to be changed in a matter of seconds
- For further information, accessories, and technical data, refer to the AUTOMATIC DEVICES section

Hand tools

CUTFOX bolt cutters

- CUTFOX-SP ... VDE cutting tools are ideal for precise and effortless cutting of bolts, nails, rivets, steel wire, and other similar hard materials
- VDE-tested cutting tools made from special high-grade tool steel
- Inductively hardened blades for permanently stable cutting performance



Diagonal cutter



Diagonal cutter with lever (VDE)

Description
Power diagonal cutter , with optimized leverage, also suitable for piano wire, VDE 1000 V AC/1500 V DC tested, size: 200 mm
Power diagonal cutter , with optimized leverage, also suitable for bolts and piano wire, VDE 1000 V AC/ 1500 V DC tested, size: 200 mm

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX-SP VDE	1212206	1

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX-SP BOLT VDE	1212831	1

CUTFOX cutting tools, angled design

- CUTFOX-SE LM electrician's diagonal cutter with stripping and cutting area
- Ergonomic handle design to eliminate fatigue when working
- All parts of the diagonal cutters that are subject to particular strain are tempered or specially hardened



Diagonal cutter, angled



Electrician's diagonal cutter, angled

Description
Diagonal cutter , angled design, size:180 mm
Electrician's diagonal cutter , angled design, with stripping, crimp, and bending function, screw pincers up to M3.5/M4, size: 180 mm

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX-SE	1212832	1

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX-SE LM	1212833	1

UNIFOX universal tools

- UNIFOX ... VDE fully insulated combination pliers in straight and angled versions
- Ergonomic handle design to eliminate fatigue when working
- Excellent transmission ratios for excellent gripping and cutting performance
- Noticeably less force required on the part of the user



Combination pliers (VDE)



Combination pliers (VDE), angled

Description	Ordering data			Type	Order No.	Pcs./Pkt.
	Type	Order No.	Pcs./Pkt.			
Combination pliers , notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 180 mm	UNIFOX-C VDE	1212202	1			
Combination pliers , notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 165 mm	UNIFOX-C VDE M	1212834	1			
Combination pliers , angled design, with opening spring and locking device, cross-notched gripping surface, integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested, size: 200 mm				UNIFOX-CE VDE	1212203	1

UNIFOX universal tools

- Individually tested safety tools in accordance with DIN EN 60900 (VDE 0682-201)
- For working on or in the vicinity of live parts up to 1000 V AC or 1500 V DC
- The tools feature ergonomic two-component safety handles



Needle-nose pliers (VDE)



Needle-nose pliers (VDE), curved and angled

Description	Ordering data			Type	Order No.	Pcs./Pkt.
	Type	Order No.	Pcs./Pkt.			
Needle-nose pliers with cutter , notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 170 mm	UNIFOX-P VDE	1212204	1			
Needle-nose pliers with cutter , angled 45°, notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 170 mm	UNIFOX-PC VDE	1212205	1			
Needle-nose pliers , angled design, with opening spring and locking device, finely notched gripping surface, stripping possible for 1.5 mm ² and 2.5 mm ² , integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested, size: 200 mm				UNIFOX-PE VDE	1212529	1

Tools – TOOL fox

Hand tools

UNIFOX universal tools

- UNIFOX ... flat and round-nose pliers with VDE protective insulation
- Finely notched gripping surfaces
- Ergonomic handle design to eliminate fatigue when working



Flat-nose pliers (VDE)



SUNCLIX mounting pliers

Description		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Flat-nose pliers , finely notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 160 mm	black	UNIFOX-F VDE	1212363	1			
Round-nose pliers , finely notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 160 mm	black	UNIFOX-R VDE	1212364	1			
Mounting pliers , for snapping the SUNCLIX crimp contacts into the plastic housing, curved 35°, suitable for a conductor diameter of 4.2 mm ... 6.0 mm.	black				UNIFOX SR 6	1200137	1

UNIFOX cable tie tools for plastic and stainless steel cable ties

- Ergonomic tool for attaching and detaching cable ties in a single operation
- The infinitely adjustable tension force is indicated by a scale in the handle area
- If the tension force is reached, the remainder is automatically severed for a flush finish



Cable tie tool for plastic cable ties



Cable tie tool for stainless steel cable ties

Description		Ordering data			Ordering data		
Description		Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Cable tie tool , for plastic cable ties with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm		UNIFOX-CT 4,8	1212475	1			
Ergonomically designed grip with comfortable tension force adjustment		UNIFOX-CT 4,8P	1212609	1			
Cable tie tool , for steel cable ties with a width of up to 7.9 mm, material thickness of up to 0.3 mm					UNIFOX-CT M 7,9	1212610	1

UNIFOX screw pliers and water pump pliers

- Screw wrench and pliers in one: zero-play grip and secure screwing of screws and nut areas
- Smooth jaws prevent the usual damage to screws and nuts from wrenches and pipe wrenches
- With automatic fast adjustment without unlock button



Screw pliers



Water pump pliers

Description	Ordering data			Type	Ordering data		
	Type	Order No.	Pcs./Pkt.		Type	Order No.	Pcs./Pkt.
Screw pliers , with fast adjustment, smooth gripping surfaces, for wrench size 10 - 36 mm, 260 mm	UNIFOX-WRENCH	1212835	1				
Water pump pliers , with groove joint, gripping surfaces with dual notching, in acc. with VDE ISO 8976, size: 240 mm					UNIFOX-WP	1212365	1

UNIFOX punch pliers

- The nickel-plated punch pliers with round mandrel punch holes with a 2 mm diameter.
- With opening springs, for comfortable and low-fatigue application
- The jaw depth is 30 mm



Punch pliers

Description	Ordering data			Type	Ordering data		
	Type	Order No.	Pcs./Pkt.		Type	Order No.	Pcs./Pkt.
Punch pliers , with 2 mm round mandrel, nickel-plated, jaw depth: 30 mm, total length: 120 mm	UNIFOX-HP	1212625	1				

Hand tools

Unlocking tool



- Tool for mounting and removing HEAVYCON contacts
- With movable fall protection integrated in the handle
- Removal tool for CK1,6-ED .../ CK1,6-ER .../CK1,6 ...POF series contacts

Description
Unlocking tool, for CK1,6-.... turned and rolled contacts



Removal tool

ERC

Ordering data		
Type	Order No.	Pcs./Pkt.
UNIFOX RT-CK 1.6	1072069	1
UNIFOX RT-CK 2.5	1072067	1
UNIFOX RT-CK 4.0	1072064	1

Cable duct cutter



- Easy, burr-free cutting with minimum effort, thanks to the special cutting geometry and optimum leverage
- Non-slip ergonomic grip
- With opening spring and locking mechanism
- Limit stop for 45° and 90° sections
- 75 mm cutting width

Dimensions	
	[mm]
General data	
Weight	[kg]

Description
Cable duct cutter
Limit stop, 90°



Cable duct cutter

Technical data		
Width	Length	Height
-	245	-
0.43		
Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX-CD	1212474	1
Accessories		
CUTFOX-CD/ES 90	1200289	1

Cable duct cutter



- Leverage and special cutting geometry enables easy, burr-free cutting with minimum effort
- Grip protection for safety
- Metric measuring rail with adjustable limit stop
- 125 mm cutting width
- Material thickness of up to 2.5 mm

Dimensions	
	[mm]
General data	
Length of the measuring rail	[mm]
Length of the hand lever	[mm]

Description
Cable duct cutter
Replacement blade, for PPS CD M
Replacement counter support (grip protection), for PPS CD M
Workbench, with plywood panel 700 x 1200 x 50 mm, without mounting screws and bore holes



Cable duct cutter

Technical data		
Width	Length	Height
285	280	290
1000		
500		
Ordering data		
Type	Order No.	Pcs./Pkt.
PPS CD M	1207569	1
Accessories		
PPS CD BLADE	1207572	1
PPS CD M COHO	1208995	1
PPS TABLE	1206285	1

Hand tools

Profile cutters



- The PPS BASIC I/M is the lightweight version of the profile cutters. It can process the common EN DIN rails NS 35/15, NS 35/7,5 and NS 15, and the NLS-CU 3/10 neutral busbar
- The PPS STANDARD ... and PPS CLASSIC ... are equipped with two stamping bits for round holes or elongated holes
- The PPS CLASSIC ... is the ideal choice for varying hole formats. By simply folding open the upper part of the PPS ..., the stamping bits are changed in no time at all



DIN rail cutter

Dimensions	
	[mm]
General data	
Weight	[kg]
Length of the measuring rail	[mm]
Length of the hand lever	[mm]

Technical data		
Width	Length	Height
150	60	180
8.3	1000	590

Description
DIN rail cutter , for cutting standard DIN rails to length, NS 15 / NS 35/7,5/NS 35/15 and for cutting the NLS-CU 3/10 neutral busbar to length, with inch/metric measuring rail
DIN rail cutter , for cutting and punching standard DIN rails to length, NS 32 / NS 35/7,5 / NS 35/15 and for cutting the NS 15 and NLS-CU 3/10 neutral busbar to length, to accommodate 2 stamping bits, with metric measuring rail, supplied without stamping bits
As above, but with inch/metric measuring rail
DIN rail cutter , for cutting and punching standard DIN rails to length, NS 32 / NS 35/7,5 / NS 35/15 and for cutting the NS 15 and NLS-CU 3/10 neutral busbar to length, to accommodate 2 stamping bits, easy exchange of stamping bits, with metric measuring rail, supplied without stamping bits
As above, but with inch/metric measuring rail
Hydraulic cylinder , for connection to an existing hydraulic system, operating pressure of 160 - 220 bar, G 1/4" connection thread, with spring reset, only suitable for PPS STANDARD ...

Ordering data		
Type	Order No.	Pcs./Pkt.
PPS BASIC I/M	1207585	1

Stamping bit , for elongated holes, lengthways
3.5 x 12 mm
4.5 x 12 mm
5.5 x 12 mm
6.5 x 15 mm
Stamping bit , for elongated holes, vertical
3.5 x 12 mm
4.5 x 12 mm
5.5 x 12 mm
6.5 x 15 mm
Stamping bit , for round holes
3.8 mm Ø
4.3 mm Ø
5.3 mm Ø
6.4 mm Ø
7.0 mm Ø
8.4 mm Ø
Hydraulic cylinder , for connection to an existing hydraulic system, operating pressure of 160 - 220 bar, G 1/4" connection thread, with spring reset, only suitable for PPS STANDARD ...
Workbench , with plywood panel 700 x 1200 x 50 mm, without mounting screws and bore holes

Accessories		
PPS TABLE	1206285	1



DIN rail cutter with bore hole die

DIN rail cutter with piercer
and quick change mechanism

Hydraulic cylinder

Technical data		
Width	Length	Height
180	100	220
19		
1000		
1000		

Ordering data		
Type	Order No.	Pcs./Pkt.

PPS STANDARD M	1206175	1
PPS STANDARD I/M	1206230	1

Accessories

PPS-ST (3,5X12)L	1203563	1
PPS-ST (4,5X12)L	1203534	1
PPS-ST (5,5X12)L	1202603	1
PPS-ST (6,5X15)L	1202593	1
PPS-ST (3,5X12)Q	1203550	1
PPS-ST (4,5X12)Q	1203547	1
PPS-ST (5,5X12)Q	1203411	1
PPS-ST (6,5X15)Q	1203408	1
PPS-ST (3,8)	1204892	1
PPS-ST (4,3)	1202616	1
PPS-ST (5,3)	1202629	1
PPS-ST (6,4)	1202632	1
PPS-ST (7,0)	1204889	1
PPS-ST (8,4)	1202726	1

PPS HYDRAULIC CYL	1208924	1

PPS TABLE	1206285	1

Technical data		
Width	Length	Height
250	100	230
19		
1000		
1000		

Ordering data		
Type	Order No.	Pcs./Pkt.

PPS CLASSIC M	1206243	1
PPS CLASSIC I/M	1206256	1

Accessories

PPS-ST (3,5X12)L	1203563	1
PPS-ST (4,5X12)L	1203534	1
PPS-ST (5,5X12)L	1202603	1
PPS-ST (6,5X15)L	1202593	1
PPS-ST (3,5X12)Q	1203550	1
PPS-ST (4,5X12)Q	1203547	1
PPS-ST (5,5X12)Q	1203411	1
PPS-ST (6,5X15)Q	1203408	1
PPS-ST (3,8)	1204892	1
PPS-ST (4,3)	1202616	1
PPS-ST (5,3)	1202629	1
PPS-ST (6,4)	1202632	1
PPS-ST (7,0)	1204889	1
PPS-ST (8,4)	1202726	1

PPS TABLE	1206285	1

Technical data		
Width	Length	Height
95	95	110
3		
-		
-		

Ordering data		
Type	Order No.	Pcs./Pkt.

PPS HYDRAULIC CYL	1208924	1

Accessories

Tools – TOOL fox

Hand tools

MICROFOX electronics pliers

- Various head shapes, even for areas that are difficult to access
- Precision-ground for exact cutting applications with minimum effort
- Mirror-polished and oiled metal surfaces
- Additional inductive hardened cutting for long-term, stable cutting performance

Notes:

For technical data regarding cutting capacity, see phoenixcontact.net/products



Diagonal cutter, with chamfer



Front cutter

Description
Electronic diagonal cutter , round head, with chamfer, with opening spring
Electronic diagonal cutter , tapered head, angled (21°), without chamfer, with opening spring
Electronic diagonal cutter , tapered head, without chamfer, with opening spring, non-reflective phosphate-treated surface, punched version
Electronic front cutter , without chamfer, with opening spring
Electronic front cutter , 20° angle, without chamfer, with opening spring

Ordering data		
Type	Order No.	Pcs./Pkt.
MICROFOX-SB	1212489	1
MICROFOX-SP	1212488	1
MICROFOX-SP-1	1212487	1

Ordering data		
Type	Order No.	Pcs./Pkt.
MICROFOX-E	1212494	1
MICROFOX-EO	1212495	1

MICROFOX electronics pliers

- Ergonomically designed two-component grip for fatigue-proof and non-slip use
- Opening spring for uniform, smooth opening
- Through-connected joint for permanent stability and optimum distribution of force
- Smooth grip to prevent damage to components when gripping and bending



Needle-nose pliers



Flat and round-nose pliers

Description
Electronic needle-nose pliers , smooth grip, with opening spring
Electronic needle-nose pliers , 45° angle, smooth grip, with opening spring
Electronic flat-nose pliers , smooth grip, with opening spring
Electronic round-nose pliers , smooth grip, with opening spring

Ordering data		
Type	Order No.	Pcs./Pkt.
MICROFOX-P	1212491	1
MICROFOX-PC	1212492	1

Ordering data		
Type	Order No.	Pcs./Pkt.
MICROFOX-F	1212493	1
MICROFOX-R	1212490	1

MICROFOX ESD electronics pliers

- Mirror-polished and phosphate-treated metal surfaces for optimum corrosion protection and no glare when working
- Various head shapes, even for areas that are difficult to access
- Screwed precision-joint
- Precision-ground for exact cutting applications

Notes:

For technical data regarding cutting capacity, see phoenixcontact.net/products

**Diagonal cutter****Front cutter****Ordering data**

Type	Order No.	Pcs./Pkt.
MICROFOX-S ESD	1212480	1

Ordering data

Type	Order No.	Pcs./Pkt.
MICROFOX-E ESD	1212485	1

Description

ESD electronic diagonal cutter, round head, without chamfer, with opening spring

ESD electronic front cutter, without chamfer, with opening spring

MICROFOX ESD electronics pliers

- Special conductive, ESD-compliant plastics in accordance with DIN EN 61340-5, for example
- Ergonomically designed two-component grip for fatigue-proof and non-slip use
- Opening spring for uniform, smooth opening
- Smooth grip to prevent damage to components when gripping and bending

**Needle-nose pliers****Flat and round-nose pliers****Ordering data**

Type	Order No.	Pcs./Pkt.
MICROFOX-P ESD	1212482	1
MICROFOX-PC ESD	1212483	1

Ordering data

Type	Order No.	Pcs./Pkt.
MICROFOX-F ESD	1212484	1
MICROFOX-R ESD	1212481	1

Description

ESD electronic needle-nose pliers, smooth grip, with opening spring

ESD electronic needle-nose pliers, 45° angle, smooth grip, with opening spring

ESD electronic flat-nose pliers, smooth grip, with opening spring

ESD electronic round-nose pliers, smooth grip, with opening spring

Hand tools

WIREFOX stripping tools

- Ergonomically shaped pliers
- WIREFOX ... stripping pliers feature an automatic adjustment mechanism for a wide range of different types of insulation and conductor sizes
- Practical integrated wire cutter
- Flexible, adjustable conductor limit stop
- The blade cartridges are replaced quickly and easily. They can be combined with each other



0.08 - 2.5 mm² conductor cross section



Conductor cross section of 0.1 ... 4 mm², for special conductors

Conductor / cable stripping range	
Conductor / cable	[mm ²] / AWG
Stripping length up to ...	[mm]
Wire cutter rigid // flexible	[mm ²] / AWG

Description

Stripping tool, angled design, for cables and conductors with a cross section of 0.08 mm² - 2.5 mm², self-adjusting, stripping length of up to 15 mm, cutting capacity: rigid up to 2.5 mm², flexible up to 6 mm²

Stripping tool, angled design, for cables and conductors (specifically also intended for rubber and other kinds of special insulation) from 0.1 mm² - 4 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity: rigid up to 1.5 mm², flexible up to 10 mm²

Stripping tool, angled design, for cables and conductors (specifically also intended for short-circuit-proof cables) from 1.5 mm² - 6 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity: rigid up to 1.5 mm², flexible up to 10 mm²

Stripping tool, angled design, for cables and conductors from 0.02 mm² - 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity: rigid up to 1.5 mm², flexible up to 10 mm²

Stripping tool, angled design, for cables and conductors from 4 mm² - 16 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity: rigid up to 1.5 mm², flexible up to 10 mm²

Technical data		
0.08 - 2.5 / 28 - 12		
15		
2.5 / 14 // 6 / 10		

Ordering data		

Type	Order No.	Pcs./Pkt.

WIREFOX 2,5 1212368 1

Accessories		

WIREFOX 2,5/SB 1212369 1

WIREFOX 2,5/WS 1212370 1

Technical data		
0.1 - 4 / 28 - 12		
18		
1.5 / 16 // 10 / 8		

Ordering data		

Type	Order No.	Pcs./Pkt.

WIREFOX-E 4 1212704 1

Accessories		

WIREFOX 4/SB 1212151 1

WIREFOX 10/WS 1200285 1

WIREFOX 10/CJ 1200286 1

Replacement blade cartridge
Replacement limit stop
Replacement clamping jaws



Conductor cross section of 1.5 - 6 mm²
for short-circuit-proof cables



0.02 - 10 mm² conductor cross section



4 - 16 mm² conductor cross section

ERC

Technical data		
1.5 - 6 / 16 - 10		
18		
1.5 / 16 // 10 / 8		
Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX-E 6SC	1212705	1

ERC

Technical data		
0.02 - 10 / 34 - 8		
18		
1.5 / 16 // 10 / 8		
Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX-E 10	1212706	1

ERC

Technical data		
4 - 16 / 12 - 5		
18		
1.5 / 16 // 10 / 8		
Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX-E 16	1212707	1

Accessories		
WIREFOX 6SC/SB	1212314	1
WIREFOX 10/WS	1200285	1
WIREFOX 10/CJ	1200286	1

Accessories		
WIREFOX 10/SB	1212152	1
WIREFOX 10/WS	1200285	1
WIREFOX 10/CJ	1200286	1

Accessories		
WIREFOX 16/SB	1212153	1
WIREFOX 10/WS	1200285	1
WIREFOX 16/CJ	1200287	2

Hand tools

WIREFOX stripping tools



- Ergonomically shaped pliers
- Anti-slip handle design provides a safe and comfortable grip
- WIREFOX ... stripping pliers feature an automatic adjustment mechanism for a wide range of different types of insulation and conductor sizes
- Practical integrated wire cutter
- Highly adjustable limit stop for the stripping length

- The blade cartridges are replaced quickly and easily. They can be combined with each other

Conductor / cable stripping range	
Conductor / cable	[mm²] / AWG
Stripping length up to ...	[mm]
Wire cutter rigid // flexible	[mm²] / AWG

Description
Stripping tool , for cables and conductors (specifically also intended for rubber and other kinds of special insulation) with a cross section of 0.1 - 4 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity: rigid up to 1.5 mm², flexible up to 10 mm²

Replacement blade cartridge
Replacement limit stop
Replacement clamping jaws

Conductor cross section 0.1 - 4 mm²,
for special conductors



Technical data

0.1 - 4 / 28 - 12
18
1.5 / 16 // 10 / 8

Ordering data

Type	Order No.	Pcs./Pkt.
WIREFOX 4	1212156	1

Accessories

WIREFOX 4/SB	1212151	1
WIREFOX 10/WS	1200285	1
WIREFOX 10/CJ	1200286	1

WIREFOX stripping tools



Conductor / cable stripping range	
Conductor / cable	[mm²] / AWG
Stripping length up to ...	[mm]
Wire cutter rigid // flexible	[mm²] / AWG

Description
Stripping tool , for cables and conductors (specifically also intended for short-circuit-proof cables) of 1.5 - 6 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity: rigid up to 1.5 mm², flexible up to 10 mm²

Replacement blade
Replacement limit stop
Replacement clamping jaws

Conductor cross section of 1.5 - 6 mm²
for short-circuit-proof cables



Technical data

1.5 - 6 / 16 - 10
18
1.5 / 16 // 10 / 8

Ordering data

Type	Order No.	Pcs./Pkt.
WIREFOX 6SC	1212158	1

Accessories

WIREFOX 6SC/SB	1212314	1
WIREFOX 10/WS	1200285	1
WIREFOX 10/CJ	1200286	1

WIREFOX stripping tools

0.02 - 10 mm² conductor cross section4 - 16 mm² conductor cross section

Conductor / cable stripping range	
Conductor / cable	[mm ²] / AWG
Stripping length up to ...	[mm]
Wire cutter rigid // flexible	[mm ²] / AWG

Technical data		
0.02 - 10 / 34 - 8		
18		
1.5 / 16 // 10 / 8		

Description

Stripping tool, for 0.02 - 10 mm² cables and conductors, self-adjusting, stripping length up to 18 mm, cutting capacity: rigid up to 1.5 mm², flexible up to 10 mm²

Stripping tool, for 4 - 16 mm² cables and conductors, self-adjusting, stripping length up to 18 mm, cutting capacity: rigid up to 1.5 mm², flexible up to 10 mm²

Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX 10	1212150	1

Accessories		
WIREFOX 10/SB	1212152	1

Technical data		
4 - 16 / 12 - 5		
18		
1.5 / 16 // 10 / 8		

Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX 16	1212155	1

Accessories		
WIREFOX 16/SB	1212153	1

Stripping machine

Notes:

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



- The automatic cutting device can be used to cut conductors, cables, and similar profiles
- Multi-strand cables with a diameter of up to 6 mm are also stripped
- For further information, accessories, and technical data, refer to the AUTOMATIC DEVICES section

Conductor cross sections from 0.08 to 6 mm²

Description
Stripping machine , 230 V/50 Hz version, for conductors and cables, rigid and flexible 0.08 - 6 mm ² (maximum Ø 6 mm), with integrated graphic display
Stripping machine , 120 V/60 Hz version, for conductors and cables, rigid and flexible 0.08 - 6 mm ² (maximum Ø 6 mm), with integrated graphic display

Ordering data		
Type	Order No.	Pcs./Pkt.
WF 1000	1212149	1
WF 1000 120V	1212258	1

Hand tools

WIREFOX stripping tools

- WIREFOX ... stripping pliers feature an automatic adjustment mechanism for a wide range of different types of insulation and conductor sizes
- Special blade geometries for various applications
- Precise and clean stripping results
- Any stripping lengths possible, thanks to the special design of the pliers



For sensor/actuator cables (SAC cables)



For flat cables

ERC	
Technical data	
Conductor / cable stripping range	
Conductor / cable	[mm²] / AWG

ERC		
Technical data		
6 - 16 / 10 - 5		

Ordering data	
Description	
Stripping pliers , for cables and conductors with a cross section of 6 - 16 mm², self-adjusting, any stripping length, also suitable for sensor/actuator cables	
Stripping pliers , for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, for diameters from 4.4 mm to 7 mm, any stripping length	
Stripping pliers , for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, for diameters from 3.2 mm to 4.4 mm, any stripping length	
Stripping pliers , for 0.75 - 2.5 mm² flat cables up to 15 mm wide, any stripping length	
Stripping pliers , for AS-Interface flat cables, any stripping length	
Stripping pliers , strip cables for cable cutouts, cable tap-offs, and shield connections with a diameter of 8 - 9 mm, insulation thickness of up to 1.2 mm, stripping length of 20 mm and above	
Stripping pliers , for removing the sheath from cables up to 5 mm in diameter, for stripping conductors with a cross section of up to 10 mm², scale for measuring the stripping length; VDE-tested	
Multifunctional stripping tool , for removing the sheath from cables with a diameter of 8 to 13 mm, for stripping cables with a cross section of 0.2 to 10 mm², with full-fledged diagonal cutter, VDE 1000 V AC/1500 V DC tested	

Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX 16-1	1212157	1
WIREFOX SAC	1212623	1
WIREFOX SAC-1	1212757	1

ERC		
Technical data		
0.75 - 2.5 / 18 - 12		

Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX FC	1212619	1
WIREFOX ASI	1212154	1

Accessories	
Replacement blade	

Accessories		
WIREFOX 16-1/SB	1204944	1
WIREFOX SAC/SB	1200282	1
WIREFOX SAC-1/SB	1200283	1

Accessories		
WIREFOX FC/SB	1200284	1
WIREFOX ASI/SB	1208076	1



For both shielded and unshielded cables

Conductor cross section of 0.2 ... 10 mm²,
(VDE)

Multifunctional tool

EAC

EAC

EAC 

Technical data		
- / -		
Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX-D SHIELD	1212172	1
Accessories		

Technical data		
0.2 - 10 / 24 - 8		
Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX 10 VDE	1212366	1
Accessories		

Technical data		
0.2 - 10 / 24 - 8		
Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX-MP VDE	1212528	1
Accessories		

WIREFOX stripping tools



- The right tool for every application
- Conductors and cables with all kinds of insulation are stripped up to a diameter of 40 mm
- The blades are precision ground. They represent long-term, reliable use
- Quick, easy, and reliable to use



Conductor diameter of 2.5 - 11 mm

ERC

Description
Stripping tool , for stripping multicore signal, control, and fiberglass cables with 2.5 - 11 mm Ø, insulation thickness of up to 1 mm
Stripping tool , for stripping installation cables with 8 - 13 mm Ø, for example, NYM 3x1.5 mm ² to NYM 5x2.5 mm ² , single-wire stripping, 0.2 - 4 mm ² , with blade for lateral cutting and extendable knife
Stripping tool , for stripping cables with 4.5 - 40 mm Ø, insulation thickness of up to 4.5 mm, swivel blade for round, longitudinal, and spiral cuts
Stripping tool , for stripping cables (especially FO cables) with 4 - 16 mm Ø
Stripping tool , for stripping cables with 8 - 28 mm Ø

Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX-D 11	1212160	1

Replacement blade

Accessories		
WIREFOX-D 11/SB	1212312	1



Conductor diameter of 8 - 13 mm



Conductor diameter of 4.5 - 40 mm



Conductor diameter of 4 - 16 mm / 4 - 28 mm

ERC

Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX-D 13	1212162	1
Accessories		

ERC

Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX-D 40	1212161	1
Accessories		
WIREFOX-D 40/SB	1212313	1

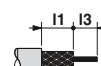
ERC

Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX-D 16	1212173	1
WIREFOX-D 28	1212174	1
Accessories		

WIREFOX stripping tools



- Large selection of precision stripping tools
- The right tool for every application
- Easy to use
- Use of high-quality components for durability



For coaxial cables, conductor diameter of 2.5 - 7.6 mm

ERC

Ordering data

Type	Order No.	Pcs./Pkt.
WIREFOX-D CX-1	1212163	1
WIREFOX-D CX-2	1212164	1
WIREFOX-D CX-3	1212165	1
WIREFOX-D CX-4	1212166	1
WIREFOX-D CX-5	1212167	1
WIREFOX-D CX-6	1212168	1
WIREFOX-D CX-7	1212169	1
WIREFOX-D CX-8	1212170	1
WIREFOX-D CX-9	1212171	1

Description

Stripping tool, for coaxial cables, from 2.5 - 7.6 mm Ø, I3 = variable

2-stage, setting dimension I1 = 6.0 mm

2-stage, setting dimension I1 = 9.2 mm

2-stage, setting dimension I1 = 12 mm

2-stage, setting dimension I1 = 6.8 mm

3-stage, setting dimension I1 = 5.5 mm, I2 = 5.5 mm

3-stage, setting dimension I1 = 8.3 mm, I2 = 2.7 mm

3-stage, setting dimension I1 = 6.0 mm, I2 = 6.0 mm

3-stage, setting dimension I1 = 6.8 mm, I2 = 2.5 mm

3-stage, setting dimension I1 = 7.5 mm, I2 = 3.5 mm

Stripping tool, for CATV type F, stripping length: 6.35 mm

Stripping tool, for 2.5 - 6 mm² solar cables, 8.5 mm stripping length, for MC3, MC4 and SOLARLOK contacts

Stripping tool, for standard 2.5, 4, and 6 mm² solar cables, with 15 mm length stop, for SUNCLIX field connectors

Accessories

Replacement blade

WIREFOX-D CX-1/SB	1212303	1
WIREFOX-D CX-2/SB	1212304	1
WIREFOX-D CX-3/SB	1212305	1
WIREFOX-D CX-4/SB	1212306	1
WIREFOX-D CX-5/SB	1212307	1
WIREFOX-D CX-6/SB	1212308	1
WIREFOX-D CX-7/SB	1212309	1
WIREFOX-D CX-8/SB	1212310	1
WIREFOX-D CX-9/SB	1212311	1





For coaxial cables, RG 59 and RG 6

For solar cables, conductor cross section of 2.5 ... 6 mm²For solar cables, conductor cross section of 2.5 ... 6 mm²

ERC

Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX-D CX 6,35	1212733	1
Accessories		

ERC

Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX-D SR 6	1212507	1
Accessories		

ERC

Ordering data		
Type	Order No.	Pcs./Pkt.
WIREFOX-D SR 6-1	1212511	1
Accessories		

Hand tools

CRIMPFOX 4 IN 1 multifunctional crimping pliers



- The CRIMPFOX 4 IN 1 multifunctional crimping pliers are used to process taped ferrules in accordance with DIN 46228-4 and UL 486F
- 4 functions combined in a single tool: cutting, stripping, twisting, and crimping
- An effective handling process enables all steps to be performed without putting the tool down



- Fitted with a releasing pressure lock, the pliers provide consistently high-quality crimping. They are ideally suited to use in industrial applications



- The robust stripping unit with its special blade geometry provides permanently consistent stripping results
- Length and cross section settings are not necessary
- In order to re-establish the twist which is lost during the stripping process, a twisting system is included



- The cross section can be conveniently changed in a matter of seconds by replacing the magazine which is loaded with taped product
- The Al...S1 ferrules in accordance with UL 486F are UL-certified when used in combination with the CRIMPFOX 4 IN 1

Notes:

¹⁾ These color and/or length variants of ferrules are currently not included in DIN 46228-4 and UL 486F, and are therefore not UL-certified. As of 11/2018. Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.

Area of application	
Conductor	[mm²] / AWG
Crimping	

Description	Color
Tool for processing ferrules with cutting, stripping, twisting, and crimping unit, with one magazine	

Tool for processing ferrules with cutting, stripping, twisting, and crimping unit, with three magazines, including one strip each of ferrules from 0.5 mm² - 2.5 mm², packaged in a robust plastic case

Taped ferrules , ferrule length: 8 mm, in accordance with DIN 46228-4 and UL 486F, 10 strips with 50(40) ferrules per strip, UL and CSA-certified	
0.5 mm²	white
0.75 mm²	gray
1,0 mm²	red
1,5 mm²	black
2.5 mm²	blue
Taped ferrules , color in accordance with NF C 63-023, CSA-certified	
0.75 mm² ¹⁾	blue
2.5 mm² ¹⁾	gray

Ferrule magazine for CRIMPFOX 4 IN 1, for ferrules with insulating collars from 0.5 - 2.5 mm² with a length of 8 mm



Multifunctional ferrule crimping pliers

Conductor cross section of 0.5 ... 2.5 mm²

ERC



Technical data		
0.5 - 2.5 / 20 - 14 Indent crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX 4 IN 1	1200101	1
CRIMPFOX 4 IN 1 SET	1200102	1
Accessories		
CRIMPFOX 4 IN 1/MAG	1200103	1

Technical data		
- / - -		
Ordering data		
Type	Order No.	Pcs./Pkt.
Al 0,5-8 WH S1	1200104	500
Al 0,75- 8 GY S1	1200105	500
Al 1,0-8 RD S1	1200106	500
Al 1,5-8 BK S1	1200107	500
Al 2,5-8 BU S1	1200108	400
Al 0,75- 8 BU S1	1200163	500
Al 2,5-8 GY S1	1200164	400
Accessories		

CRIMPFOX crimping pliers for ferrules



- The ergonomically designed handles and the optimized mechanical transmission ensure an optimum grip and significantly reduce the amount of force required
- Consistently high crimping quality, thanks to the integrated pressure lock
- Marked die stations for precise processing of the relevant cross sections
- The A... and Al... ferrules in accordance with UL 486F are UL-certified when used in combination with the CRIMPFOX 6. For further information, visit www.phoenixcontact.com



0.25 ... 2.5 mm² conductor cross section

ERC

Area of application	
Conductor	[mm ²] / AWG
Crimping	
Description	
Crimping pliers , compact pliers, for ferrules in accordance with DIN 46228-1/4 and UL 486F, unlockable pressure lock, lateral entry	
Crimping pliers , for ferrules in accordance with DIN 46228-1-4 and UL 486F, five marked die stations, unlockable pressure lock, lateral entry	
Crimping pliers , compact pliers, for ferrules in accordance with DIN 46228-1/4 and UL 486F, unlockable pressure lock, lateral entry	
Crimping pliers , for ferrules in accordance with DIN 46228-1/-4 and UL 486F, unlockable pressure lock, lateral entry	
Replacement die	
Replacement recuperating spring	

Technical data		
0.25 - 2.5 / 24 - 14 Trapezoidal crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX 2,5-M	1212719	1
Accessories		
CRIMPFOX/ SPR-1	1212069	1

0.25 ... 6 mm² conductor cross section0.25 ... 6 mm² conductor cross section4 ... 10 mm² conductor cross section

ERC

Technical data		
0.25 - 6 / 24 - 10 Trapezoidal crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX 6	1212034	1
Accessories		
CRIMPFOX 6/DIE	1212035	1
CRIMPFOX/ SPR-3	1212036	10

ERC

Technical data		
0.25 - 6 / 24 - 10 Trapezoidal crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX 6-M	1212720	1
Accessories		
CRIMPFOX/ SPR-1	1212069	1

ERC

Technical data		
4 - 10 / 12 - 8 Trapezoidal crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX 10	1212721	1
Accessories		
CRIMPFOX/ SPR-1	1212069	1

Hand tools

CRIMPFOX crimping pliers
for ferrules



- Flexible crimping even in difficult-to-access points, thanks to rotating die
- Consistently high crimping quality, thanks to the integrated pressure lock
- The self-adjusting dies automatically adjust to the sleeve sizes
- Bound to impress, thanks to the quick and reliable contact processing method
- Ergonomically designed handles ensure an optimum grip. They help avoid fatigue when working
- The A... and AI... ferrules in accordance with UL 486F are UL-certified when used in combination with the CRIMPFOX DUO 10. For further information, visit www.phoenixcontact.com



Conductor cross section
of 0.14 ... 10 mm²

ERC

Area of application	
Conductor	[mm ²] / AWG
Crimping	

Description

Crimping pliers, for ferrules in accordance with DIN 46228-1/-4 and UL 486F, 0.14 ... 10 mm², also ideal for TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, rotating die, lateral and front entry

Tool kit, equipped with each of the following tools: WIREFOX 10 | CRIMPFOX DUO 10 | AI SORTI BOX RD | AI-TWIN SORTI BOX BU | TOOL-KIT STANDARD EMPTY

Crimping pliers, for ferrules in accordance with DIN 46228-1/-4 and UL 486F, self-adjusting die, unlockable pressure lock, front entry

Crimping pliers, for ferrules in accordance with DIN 46228-1/-4 and UL 486F, self-adjusting die, unlockable pressure lock, front entry

Replacement recuperating spring

Technical data		
0.14 - 10 / 26 - 8 Trapezoidal crimp		

Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX DUO 10	1031721	1
CRIMPFOX DUO 10 SET	1044971	1

Accessories		
CRIMPFOX/ SPR-4	1200288	1



Conductor cross section
of 0.5 ... 6 mm²



Conductor cross section
of 0.25 ... 6 mm²

EAC

Technical data		
0.5 - 6 / 20 - 10 Square crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX 6S-F	1212043	1
Accessories		
CRIMPFOX/ SPR-1	1212069	1

EAC

Technical data		
0.25 - 6 / 24 - 10 Trapezoidal crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX 6T-F	1212038	1
Accessories		
CRIMPFOX/ SPR-1	1212069	1

Hand tools

CRIMPFOX crimping pliers for ferrules

- The self-adjusting die of the crimping pliers automatically adapts to the size of the sleeve and impresses with its quick and reliable contact processing method
- The A... and Al... ferrules in accordance with UL 486F are UL-certified when used in combination with the CRIMPFOX CENTRUS... For further information, visit www.phoenixcontact.com



Conductor cross section 0.14 ... 6 mm²



Conductor cross section 0.14 ... 6 mm²

Area of application	
Conductor	[mm ²] / AWG
Crimping	

Description
Crimping pliers , for ferrules in accordance with DIN 46228-1/-4 and UL 486F, 0.14 ... 6 mm ² , unlockable pressure lock, lateral entry

Replacement recuperating spring

Technical data		
0.14 - 6 / 26 - 10 Square crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX CENTRUS 6S	1213144	1
Accessories		
CRIMPFOX/ SPR-4	1200288	1

Technical data		
0.14 - 6 / 26 - 10 HEX crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX CENTRUS 6H	1213146	1
Accessories		
CRIMPFOX/ SPR-4	1200288	1

CRIMPFOX crimping pliers for ferrules

- These compact crimping pliers have been designed to reduce effort when working
- The minimal gripping distance and the ergonomic handle shape enable comfortable use, with up to 30% less manual force. Also ideal for TWIN ferrules



Conductor cross section 0.14 ... 10 mm²



Conductor cross section 0.14 ... 10 mm²

Area of application	
Conductor	[mm ²] / AWG
Crimping	

Description
Crimping pliers , for ferrules in accordance with DIN 46228-1/-4 and UL 486F, 0.14 ... 10 mm ² , unlockable pressure lock, lateral entry

Replacement recuperating spring

Technical data		
0.14 - 10 / 26 - 8 Square crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX CENTRUS 10S	1213154	1
Accessories		
CRIMPFOX/ SPR-4	1200288	1

Technical data		
0.14 - 10 / 26 - 8 HEX crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX CENTRUS 10H	1213156	1
Accessories		
CRIMPFOX/ SPR-4	1200288	1

CRIMPFOX crimping pliers for ferrules

- These crimping pliers are used to conveniently process ferrules measuring up to 50 mm²
- The A... and Al... ferrules in accordance with UL 486F are UL-certified when used in combination with the CRIMPFOX 25R / 50R. For further information, visit www.phoenixcontact.com

Conductor cross section of 10 - 25 mm²Conductor cross section of 35 - 50 mm²

Notes:

Find corresponding ferrules from page 480.

Area of application

Conductor [mm²] / AWG
Crimping

Description

Crimping pliers, for ferrules in accordance with DIN 46228-1-4 and UL 486F, three marked die stations, unlockable pressure lock, lateral entry

Two marked die stations

Replacement die

Replacement recuperating spring

Technical data

10 - 25 / 8 - 4
WM crimp

Ordering data

Type	Order No.	Pcs./Pkt.
CRIMPFOX 25R	1212039	1

Accessories

CRIMPFOX 25R/DIE	1212040	1
CRIMPFOX/ SPR-1	1212069	1

Technical data

35 - 50 / 2 - 1
WM crimp

Ordering data

Type	Order No.	Pcs./Pkt.
CRIMPFOX 50R	1212041	1

Accessories

CRIMPFOX 50R/DIE	1212042	1
CRIMPFOX/ SPR-1	1212069	1

CRIMPFOX crimping pliers for TWIN ferrules

- These pliers are specially designed for convenient, high process reliability of TWIN ferrules
- The innovative mechanical design of these pliers means that up to 25% less force is required compared to conventional pliers.
- The balanced weight distribution ensures low-fatigue, convenient application
- The Al-TWIN ferrules in accordance with UL 486F are UL-certified when used in combination with the CRIMPFOX 16R TWIN. For further information, visit www.phoenixcontact.com

Conductor cross section 2 x 6 ... 2 x 16 mm²

Area of application

Conductor [mm²] / AWG
Crimping

Description

Crimping pliers, for TWIN ferrules in accordance with UL 486F, three marked die stations, unlockable pressure lock, lateral entry

Replacement die
for TWIN ferrules (Al-TWIN ...) 2 x 6, 2 x 10 and 2 x 16 mm²

Replacement recuperating spring

Technical data

6 - 16 / 10 - 6
WM crimp

Ordering data

Type	Order No.	Pcs./Pkt.
CRIMPFOX 16R TWIN	1212845	1

Accessories

CRIMPFOX 16R TWIN/DIE	1212846	1
CRIMPFOX/ SPR-1	1212069	1

Hand tools

CRIMPFOX crimping pliers for cable lugs and connectors

- Consistently high crimping quality, thanks to the integrated pressure lock
- The color-coded dies clearly indicate the cross section

Notes:

Suitable ferrules, cable lugs and flat connectors have been documented, see from page 480.



Conductor cross section
of 0.14 ... 1 mm²



Conductor cross section
of 0.5 ... 2.5 mm²



ERC

Technical data

Area of application	
Conductor	[mm ²] / AWG
Crimping	

0.14 - 1 / 26 - 18
Oval crimp

Ordering data

Description

Crimping pliers, for insulated cable lugs (light green, red), three marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, compact pliers, for insulated cable lugs (light green, red), three marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, for insulated cable lugs (red, blue), two marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, compact pliers, for insulated cable lugs (red, blue), two marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, for insulated cable lugs, symmetrical (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, compact pliers, for insulated cable lugs, symmetrical (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, for insulated DIN cable lugs, symmetrical (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry

black

Crimping pliers, for insulated cable lugs, asymmetrical (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry

black

Crimping pliers, for fully insulated shrink connectors (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry

black

Accessories

Replacement die

Replacement recuperating spring

CRIMPFOX-RCI 1/DIE

1212056

1

CRIMPFOX/ SPR-3

1212036

10

ERC

Technical data

0.5 - 2.5 / 20 - 14
Oval crimp

Ordering data

Description

CRIMPFOX-RCI 2,5

1212053

1

Accessories

CRIMPFOX-RCI 2,5/DIE

1212054

1

CRIMPFOX/ SPR-3

1212036

10



Conductor cross section
of 0.5 ... 2.5 mm²



Conductor cross section
of 0.5 ... 6 mm²



Conductor cross section
of 0.5 ... 6 mm²

TOOLS
FOR YOU

ERC

Technical data		
0.5 - 2.5 / 20 - 14 Oval crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-RCI 2,5-M	1212728	1
Accessories		
CRIMPFOX/ SPR-1	1212069	1

ERC

Technical data		
0.5 - 6 / 20 - 10 Oval crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-RCI 6	1212057	1
CRIMPFOX-RCI 6-M	1212730	1
CRIMPFOX-RCI DIN 6	1212729	1
CRIMPFOX-RCI 6-1	1212059	1
Accessories		
CRIMPFOX-RCI 6/DIE	1212058	1
CRIMPFOX-RCI 6-1/DIE	1212290	1
CRIMPFOX/ SPR-1	1212069	1

ERC

Technical data		
0.5 - 6 / 20 - 10 Oval crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-HS 6	1212722	1
Accessories		
CRIMPFOX/ SPR-1	1212069	1

Hand tools

CRIMPFOX crimping pliers for uninsulated cable lugs

- The ergonomically designed handles and the optimized mechanical transmission ensure an optimum grip and significantly reduce the amount of force required
- Compact and lightweight design
- Unlockable pressure lock

Notes:

Suitable ferrules, cable lugs and flat connectors have been documented, see from page 480.



Conductor cross section
of 0.34 ... 2.5 mm²



Conductor cross section
of 0.34 ... 6 mm²

ERC

Technical data

Area of application	
Conductor	[mm ²] / AWG
Crimping	

0.34 - 2.5 / 22 - 14
Indent crimp

Ordering data

Description

Crimping pliers, for uninsulated cable lugs, three marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, compact pliers, for uninsulated cable lugs, three marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, compact pliers, for uninsulated cable lugs, two marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, for uninsulated cable lugs, two marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, for uninsulated cable lugs, three marked die stations, unlockable pressure lock, lateral entry

Type	Order No.	Pcs./Pkt.
CRIMPFOX-RC 2,5	1212063	1
CRIMPFOX-RC 2,5-M	1212723	1

Accessories

Replacement die	CRIMPFOX-RC 2,5/DIE	1212064	1
Replacement recuperating spring	CRIMPFOX/ SPR-3	1212036	10

ERC

Technical data

0.34 - 6 / 22 - 10
Indent crimp

Ordering data

Type	Order No.	Pcs./Pkt.
CRIMPFOX-RC 6-M	1212724	1

Accessories

	CRIMPFOX/ SPR-1	1212069	1



Conductor cross section
of 0.34 ... 6 mm²



Conductor cross section
of 4 - 10 mm²

EAC

Technical data		
0.35 - 6 / 22 - 10 Indent crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-RC 6	1212710	1
Accessories		
CRIMPFOX/ SPR-3	1212036	10

EAC

Technical data		
4 - 10 / 12 - 8 Indent crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-RC 10	1212061	1
Accessories		
CRIMPFOX/ SPR-3	1212036	10

Hand tools

CRIMPFOX crimping pliers for uninsulated cable lugs

- Unlockable pressure lock
- Marked die stations for precise processing of the relevant cross sections
- The fixing element on the lower handle edge is placed on surfaces to support manual force



Conductor cross section of 10 - 25 mm²

Area of application		Technical data		
Conductor	[mm ²] / AWG	10 - 25 / 8 - 4		
Crimping		Indent crimp		
Description		Ordering data		
Crimping pliers, for uninsulated cable lugs		Type	Order No.	Pcs./Pkt.
		CRIMPFOX-RC 25	1212065	1
Replacement die		Accessories		
Replacement recuperating spring		CRIMPFOX-RC 25/DIE	1212299	1
		CRIMPFOX/ SPR-1	1212069	1

CRIMPFOX crimping pliers for uninsulated tube lugs

- Consistently high crimping quality, thanks to the integrated pressure lock



Conductor cross section of 4 - 16 mm²



Conductor cross section of 10 - 70 mm²

Area of application		Technical data			Technical data		
Conductor	[mm ²] / AWG	4 - 16 / 11 - 5			10 - 70 / 8 - 00		
Crimping		Indent crimp			Indent crimp		
Description		Ordering data			Ordering data		
Crimping pliers, for standard, uninsulated tube lugs, three marked die stations		Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Crimping pliers, for standard, uninsulated tube lugs, three marked die stations, unlockable pressure lock, lateral entry, 10 - 25 mm ² conductor cross section, crimping: HEX crimp		CRIMPFOX-RCT 16-1	1212731	1	CRIMPFOX-RCT 25-1	1212066	1
Crimping pliers, for standard, uninsulated tube lugs, with rotatable die, 5 stations, 10 - 70 mm ² conductor cross section					CRIMPFOX-RCT 70-1	1212732	1

CRIMPFOX basic pliers, for accommodating various crimp inserts

- Universal crimping pliers up to 120 mm²
- Wide variety of available dies
- Easily foldable jaw holders mean that the dies can be changed quickly
- A mechanical ratchet system keeps the level of force required to an absolute minimum

Notes:

Suitable ferrules, cable lugs and flat connectors have been documented, see from page 480.

For more dies, visit phoenixcontact.net/products.



Basic pliers for various dies
up to 50 mm²



Basic pliers for various dies
up to 120 mm²

ERC

Ordering data		
Type	Order No.	Pcs./Pkt.

CRIMPFOX-C50	1212340	1

Accessories

CRIMPFOX-C50 RCI 10/DIE	1212346	1
CRIMPFOX-C50 RCI 16/DIE	1212347	1
CRIMPFOX-C50 RCI 25/DIE	1212348	1
CRIMPFOX-C50 RC 35/M-DIE	1212343	1
CRIMPFOX-C50 RC 25/F-DIE	1212344	1
CRIMPFOX-C50 RC 35/F-DIE	1212345	1
CRIMPFOX-C50 RCT 35-1/DIE	1212341	1
CRIMPFOX-C50 RCT 50-1/DIE	1212342	1
CRIMPFOX-C50 R25-35/DIE	1212349	1
CRIMPFOX-C50 R35-50/DIE	1212350	1
CRIMPFOX-C50 R50-70/DIE	1212351	1

ERC

Ordering data		
Type	Order No.	Pcs./Pkt.

CRIMPFOX-C120	1212318	1

Accessories

CRIMPFOX-C120 AI 70/M-DIE	1212335	1
CRIMPFOX-C120 AI 95/M-DIE	1212336	1
CRIMPFOX-C120 AI 50/F-DIE	1212337	1
CRIMPFOX-C120 AI 70/F-DIE	1212338	1
CRIMPFOX-C120 AI 95/F-DIE	1212339	1
CRIMPFOX-C120 AI 120/DIE	1209910	1
CRIMPFOX-C120 RCI 10/DIE	1212327	1
CRIMPFOX-C120 RCI 16/DIE	1212328	1
CRIMPFOX-C120 RCI 25/DIE	1212329	1
CRIMPFOX-C120 RCI 35/DIE	1212330	1
CRIMPFOX-C120 RC 70/M-DIE	1212331	1
CRIMPFOX-C120 RC 35/F-DIE	1212332	1
CRIMPFOX-C120 RC 50/F-DIE	1212333	1
CRIMPFOX-C120 RC 70/F-DIE	1212334	1
CRIMPFOX-C120 RCT 35-1/DIE	1212320	1
CRIMPFOX-C120 RCT 50-1/DIE	1212321	1
CRIMPFOX-C120 RCT 70-1/DIE	1212319	1
CRIMPFOX-C120 RCT 95-1/DIE	1212322	1
CRIMPFOX-C120 RCT 120-1/DIE	1212323	1
CRIMPFOX-C120 R25-50/DIE	1212324	1
CRIMPFOX-C120 R35-70/DIE	1212325	1
CRIMPFOX-C120 R95/DIE	1212326	1

Description

Basic pliers, with ratchet function, accommodate crimping dies for various types of contact
Up to 50 mm²
Two-hand operation up to 120 mm²

Upper part of die, for ferrules 50 mm², 70 mm², trapezoidal crimp

For 95 mm²

Lower part of die, for ferrules 50 mm², trapezoidal crimp

For 70 mm²

For 95 mm²

Die (pair), for ferrules 120 mm², trapezoid crimp

Die pair, for insulated cable lugs, 10 mm², oval crimp

For 16 mm²

For 25 mm²

For 35 mm²

Die upper part, for uninsulated cable lugs, (DIN 46234)
6 - 35 mm², indent crimp

for 6 - 70 mm²

Die lower part, for uninsulated cable lugs, 25 mm², indent crimp

For 35 mm²

For 10, 16, 25, 35 mm²

For 6, 50 mm²

For 10, 70 mm²

Die (pair), for standard copper tubular cable lugs, 35 mm²,
WM crimp

For 16, 35 mm²

For 50 mm²

For 25, 50 mm²

For 10, 70 mm²

For 95 mm²

For 120 mm²

Pre-round die (pair), for sector cable, 25, 35 mm²

For 35, 50 mm²

For 50, 70 mm²

For 25, 50 mm²

For 35, 70 mm²

For 95 mm²

Hand tools

CRIMPFOX crimping pliers for uninsulated slip-on sleeves

- Processes uninsulated slip-on blade connectors and slip-on sleeves up to 6 mm²
- Consistently high crimping quality, thanks to the integrated pressure lock
- Marked die stations for precise processing of the relevant cross sections

Notes:

Suitable ferrules, cable lugs and flat connectors have been documented, see from page 480.



Conductor cross section of 0.1 ... 1.5 mm²



Conductor cross section of 0.1 ... 1.5 mm²

ERC

Technical data

Area of application	
Conductor	[mm ²] / AWG
Crimping	

0.1 - 1.5 / 26 - 16
B crimp

Ordering data

Description

Crimping pliers, for 2.8/4.8 mm uninsulated slip-on sleeves, three marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, compact pliers, for uninsulated slip-on sleeves, 2.8 / 4.8 mm, three marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, for 2.8 / 4.8 / 6.3 mm uninsulated slip-on sleeves, three marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, for 2.8 / 4.8 / 6.3 mm uninsulated slip-on sleeves, three marked die stations, unlockable pressure lock, lateral entry, incl. positioning tool

Crimping pliers, compact pliers, for angled (right), uninsulated slip-on sleeves, marked die station, unlockable pressure lock, lateral entry

Type	Order No.	Pcs./Pkt.
CRIMPFOX-SC 1,5	1212048	1

Accessories

Replacement die	
Replacement recuperating spring	

CRIMPFOX-SC 1,5/DIE	1212049	1
CRIMPFOX/ SPR-3	1212036	10

ERC

Technical data

0.1 - 1.5 / 26 - 16
B crimp

Ordering data

Type	Order No.	Pcs./Pkt.
CRIMPFOX-SC 1,5-M	1212725	1

Accessories

CRIMPFOX/ SPR-1	1212069	1



Conductor cross section
of 0.5 ... 6 mm²



Conductor cross section
of 0.5 ... 6 mm²



For angled slip-on sleeves,
1.0 - 2.5 mm² conductor cross section

ERC

Technical data		
0.5 - 6 / 20 - 10 B crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-SC 6	1212050	1

Accessories		
CRIMPFOX-SC 6/DIE	1212051	1
CRIMPFOX/ SPR-1	1212069	1

ERC

Technical data		
0.5 - 6 / 22 - 10 B crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-SC 6L	1212052	1

Accessories		
CRIMPFOX-SC 6/DIE	1212051	1
CRIMPFOX/ SPR-1	1212069	1

ERC

Technical data		
1 - 2.5 / 18 - 14 B crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-SCA 2,5-M	1212726	1

Accessories		
CRIMPFOX/ SPR-1	1212069	1

Hand tools

Crimping pliers for COMBICON crimp connectors and CK 1,6-ER... OIC rolled contacts



- Symmetrical and optimum crimping results are achieved, thanks to the parallel motion sequences of the dies
- Low manual force combined with high crimping force achieves precise processing results for the corresponding cross sections
 - Crimping pliers for COMBICON crimp connectors and CK 1,6-ER... OIC rolled contacts
 - The positioning tool ensures that the contact is optimally aligned before the crimping process



new

Conductor cross section of 0.14 ... 2.5 mm²

ERC

Area of application
Crimping
Description
Crimping pliers for COMBICON crimp connectors, cross section: 0.14 ... 0.75 mm ² . Unlockable pressure lock, front entry, incl. 2 positioning tools
Crimping pliers for CK 1,6-ER... OIC rolled contacts, cross section: 0.14 ... 2.5 mm ² , unlockable pressure lock, front entry, incl. positioning tool

Technical data		
B crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-P CC 0.75 L	1064998	1
CRIMPFOX-P CK 1.6 ER 2.5 OIC-L	1069228	1

Accessories

Hand tools

CRIMPFOX crimping pliers for turned contacts

- Crimping pliers for processing turned contacts of up to 10 mm²
- The integrated positioning tool ensures that the contacts are perfectly aligned in the die
- Marked die stations for precise processing of the relevant cross sections



Conductor cross section of 0.14 - 4 mm²

Area of application		Technical data		
Conductor	[mm ²] / AWG	0.14 - 4 / 26 - 12		
Crimping		Square crimp		
Description		Ordering data		
Crimping pliers , for turned pin and socket contacts, CK1,6-ED..., CK2,5-ED..., CK4,0-ED...		Type	Order No.	Pcs./Pkt.
0.14 - 4.0 mm ²		CRIMPFOX-TC 4	1212113	1
Crimping pliers , for turned pin and socket contacts, CK4,0-ED..., 6.0 -10.0 mm ²		CRIMPFOX-TC 10	1212114	1
Replacement die		Accessories		
- For CRIMPFOX-TC 4		CRIMPFOX-TC 4/DIE	1212295	1
- For CRIMPFOX-TC 10		CRIMPFOX-TC 10/DIE	1212296	1
Replacement recuperating spring		CRIMPFOX/ SPR-1	1212069	1

CRIMPFOX four-mandrel crimping pliers for turned contacts, with digital display

- Crimping pliers for processing turned pin and socket contacts of up to 2.5 mm²
- Crimp depth setting in increments from 0.01 mm possible
- Low strain and length adjustment of the contacts, thanks to special crimp geometry
- The integrated positioning tool ensures that the contacts are perfectly aligned in the die
- You can find further details on this product (incl. connector matrix) at phoenixcontact.net/products



Conductor cross sections of 0.08 - 2.5 mm²

Area of application		Technical data		
Conductor	[mm ²] / AWG	0.08 - 2.5 / 28 - 14		
Crimping		Four-mandrel crimping		
Description		Ordering data		
Crimping pliers , for turned contacts, universal cross section setting, up to a maximum of 2.5 mm ² , digital display with 0.01 mm increments, unlockable pressure lock, lateral entry, including positioning tool		Type	Order No.	Pcs./Pkt.
black		CRIMPFOX-TC MP	1212510	1
Crimping pliers , for turned contacts, universal cross section setting, from 0.08 mm ² up to a maximum of 2.5 mm ² , digital display with 0.01 mm increments, unlockable pressure lock, lateral entry, including positioning tool		CRIMPFOX-TC MP-1	1212620	1
black				

CRIMPFOX crimping pliers for coaxial connectors

- CRIMPFOX-CX... are crimping pliers for processing coaxial connectors
- Consistently high crimping quality, thanks to the pressure lock, which can be unlocked without tools
- Marked die stations for precise processing of the relevant cross sections

Notes:

Replacement dies and replacement retaining springs can be found in the product area on our website at phoenixcontact.net/products.



For coaxial connectors



For coaxial connectors

ERC

Technical data			
HEX crimp			
Ordering data			
Description	Type	Order No.	Pcs./Pkt.
Crimping pliers, for: Coaxial connectors, 1.69 mm, 3.25 mm, 4.52 mm, three marked die stations, unlockable pressure lock, lateral entry, hex crimp	CRIMPFOX-CX 4,52	1212094	1
Crimping pliers, compact pliers, coaxial connectors, 1.69 mm, 3.25 mm, 4.52 mm, three marked die stations, unlockable pressure lock, lateral entry, Hex crimp			
Crimping pliers, compact pliers, coaxial connectors, 1.69 mm, 5.41 mm, 6.48 mm, three marked die stations, unlockable pressure lock, lateral entry, Hex crimp			
Crimping pliers, for: coaxial connectors, 1.69 mm, 5.41 mm, 6.48 mm, three marked die stations, unlockable pressure lock, lateral entry, Hex crimp	CRIMPFOX-CX 6,48	1212095	1
Crimping pliers, compact pliers, coaxial connectors, 0.7 mm, 1.07 mm, 1.69 mm, 3.25 mm, 4.52 mm, 5.41 mm, six marked die stations, unlockable pressure lock, lateral entry, Hex crimp			
Crimping pliers, for: coaxial connectors, 1.73 mm, 8.23 mm, 9.14 mm, three marked die stations, unlockable pressure lock, lateral entry			
Crimping pliers, for: coaxial connectors, 2.54 mm, 10.54 mm, two marked die stations, unlockable pressure lock, lateral entry			
black			
Crimping pliers, compact pliers, coaxial connectors, 1.69 mm, 2.54 mm, 5.41 mm, 10.90 mm, four marked die stations, unlockable pressure lock, lateral entry			
black			
Crimping pliers, compact pliers, coaxial connectors, HDTV, BNC, TNC, 1.04 mm, 4.52 mm, 6.48 mm, 7.06 mm, four marked die stations, unlockable pressure lock, lateral entry			
black			

ERC

Technical data		
HEX crimp		
Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-CX 4,52-M	1212713	1
CRIMPFOX-CX 6,48-M	1212714	1
CRIMPFOX-CX 5,41-M	1212712	1
CRIMPFOX-CX 9,14	1212096	1
CRIMPFOX-CX 10,54	1212097	1
CRIMPFOX-CX 10,90-1	1212715	1
CRIMPFOX-CX 7,06 HD-M	1212718	1

Tools – TOOL fox

Hand tools

CRIMPFOX crimping pliers for coaxial CATV connectors

- CRIMPFOX-CATV... are crimping pliers for processing coaxial CATV connectors
- Consistently high crimping quality, thanks to the pressure lock
- Release as soon as the required crimping pressure is reached. This ensures sufficient pressure is applied
- Ergonomically designed handle for fatigue-proof and non-slip use



For CATV connectors



For CATV connectors

Area of application

Crimping

Description

Crimping pliers, for CATV connectors, RG 6.59, 1.69 mm, 8.23 mm, two marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, for CATV connectors, 6.65 mm, 8.23 mm, 9.70 mm, three marked die stations, unlockable pressure lock, lateral entry

Replacement recuperating spring

Technical data

HEX crimp

Ordering data

Type	Order No.	Pcs./Pkt.
CRIMPFOX-CATV 8,23	1212716	1

Accessories

CRIMPFOX/ SPR-1	1212069	1

Technical data

HEX crimp

Ordering data

Type	Order No.	Pcs./Pkt.
CRIMPFOX-CATV 8,23-1	1212717	1

Accessories

CRIMPFOX/ SPR-1	1212069	1

CRIMPFOX crimping pliers for D-SUB, coaxial, and fiber optic connectors

- The integrated positioning tool of the CRIMPFOX D-SUB... ensures that the contacts are perfectly aligned in the die

Notes:

Replacement dies and replacement retaining springs can be found in the product area on our website at phoenixcontact.net/products.



For D-SUB contacts



For FO connectors

Area of application

Crimping

Description

Crimping pliers
- For rolled D-SUB contacts, high-density, 0.08 mm² - 0.5 mm², incl. contact locator

- For rolled D-SUB contacts, standard, 0.05 mm² - 0.5 mm², incl. contact locator

Crimping pliers, for FO connectors, 3.25 mm, 3.84 mm, 4.52 mm, 5.0 mm, 5.41 mm, five marked die stations, unlockable pressure lock, lateral entry

Replacement recuperating spring

Technical data

B crimp

Ordering data

Type	Order No.	Pcs./Pkt.
CRIMPFOX-DSUB 5	1212111	1
CRIMPFOX-DSUB 5-1	1212711	1

Accessories

CRIMPFOX/ SPR-3	1212036	10

Technical data

HEX crimp

Ordering data

Type	Order No.	Pcs./Pkt.
CRIMPFOX-FO 5,41	1212099	1

Accessories

CRIMPFOX/ SPR-1	1212069	1

CRIMPFOX crimping pliers for solar connectors

- Safe crimping of MC3 and MC4 solar connectors from Multi-Contact and SOLARLOK connectors from Tyco
- Ergonomically designed grip
- Optimized mechanical transmission reduces the force required by up to 25 percent

Conductor cross section of 2.5 - 6 mm²Conductor cross section of 2.5 - 6 mm²

Description
Crimping pliers , square crimp, for MC3 solar connectors, 2.5 – 6 mm ² , unlockable pressure lock, lateral entry, with three marked die stations
Crimping pliers , B-crimp, for MC4 solar connectors, 2.5 – 6 mm ² , unlockable pressure lock, lateral entry, with three marked die stations
Crimping pliers , square crimp, for SOLARLOK solar connectors, 2.5 – 6 mm ² , unlockable pressure lock, lateral entry, with three marked die stations
Crimping pliers , B-crimp, for SUNCLIX solar crimp connectors 2.5 ... 6 mm ² , unlockable pressure lock, precise parallel crimping, lateral entry, including positioning tool

Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-SR 6-1	1212467	1
CRIMPFOX-SR 6-2	1212468	1
CRIMPFOX-SR 6-3	1212469	1

Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-P SR 6	1212755	1

CRIMPFOX universal pliers for accommodating various crimp inserts

Notes:

For more crimping dies for ferrules, cable lugs, slip-on sleeves, turned contacts, coaxial, RJ45, and RJ11 connectors, visit phoenixcontact.net/products



- One of the key features of the CRIMPFOX-M crimping pliers is the way the crimp inserts can be quickly replaced without the need for tools
- The variety of inserts makes it a space-saving universal tool for all crimping applications
- Suitable for one and two-hand operation. Contacts up to 50 mm² are also processed easily, with minimum effort

Description
Basic pliers , for accommodating dies for various contact types, unlockable pressure lock, lateral entry
Crimping pliers set , consisting of CRIMPFOX-M and dies 1212074, 1212079, 1212080, 1212081



Basic pliers

Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-M	1212072	1
CRIMPFOX-M SET	1212093	1

Hand tools

Dies for the CRIMPFOX-M universal pliers

A wide variety of interchangeable crimp dies enables use in all areas of application, with just one crimping tool, the CRIMPFOX-M.

- Die upper and lower parts are connected securely to each other and can therefore not be swapped
- Delivery is in an alignable storage box

Notes:

For more crimping dies for ferrules, cable lugs, slip-on sleeves, turned contacts, coaxial, RJ45, and RJ11 connectors, visit phoenixcontact.net/products



Dies for CRIMPFOX-M

ERC

Ordering data			
Description	Type	Order No.	Pcs./Pkt.
Die, for MC3 solar connectors Lateral entry, 2.5 - 6 mm ²	CRIMPFOX-M SR 6-1/DIE	1212471	1
for MC4 solar connectors, lateral entry, 2.5 - 6 mm ²	CRIMPFOX-M SR 6-2/DIE	1212472	1
for SOLARLOK solar connectors, lateral entry, 2.5 - 6 mm ²	CRIMPFOX-M SR 6-3/DIE	1212473	1
Die, for ferrules for 0.25 - 10 mm ²	CRIMPFOX-M 10/DIE	1212080	1
for 16 - 25 mm ²	CRIMPFOX-M 25/DIE	1212081	1
for 35 - 50 mm ²	CRIMPFOX-M 50/DIE	1212082	1
Die, for insulated cable lugs for 0.5 - 1.5 mm ² and 1.5 - 2.5 mm ²	CRIMPFOX-M RC1 2,5/DIE	1212074	1
for insulated cable lugs, 0.1 - 0.4 mm ² and 4 - 6 mm ²	CRIMPFOX-M RC1 6/DIE	1212073	1
Die, for uninsulated cable lugs for 0.75 - 2.5 mm ²	CRIMPFOX-M RC 2,5/DIE	1212078	1
for 0.5 - 6 mm ²	CRIMPFOX-M RC 6/DIE	1212079	1
for 4 - 6 and 10 mm ²	CRIMPFOX-M RC 10-1/DIE	1212744	1
for 4 - 10 mm ²	CRIMPFOX-M RC 10/DIE	1212077	1
Die, for uninsulated slip-on sleeves for 0.1 - 1 mm ²	CRIMPFOX-M SC 1/DIE	1212083	1
for 0.5 - 2.5 mm ²	CRIMPFOX-M SC 2,5/DIE	1212084	1
for 0.5 - 6 mm ²	CRIMPFOX-M SC 6/DIE	1212085	1
with wide, flat crimp for 0.5 - 6 mm ²	CRIMPFOX-M SC 6-FL/DIE	1212741	1
for angled slip-on sleeves, for 6.3 mm, 1.0 - 2.5 mm ²	CRIMPFOX-M SCA 2,5/DIE	1212742	1
for angled slip-on sleeves, for 8 mm, 1.0 - 2.5 mm ²	CRIMPFOX-M SCA 2,5-1/DIE	1212743	1
Die, for turned pin and socket contacts CK2,5-ED..., CK4,0-ED..., cross section 0.5 - 4 mm ²	CRIMPFOX-M TC 4/DIE	1212075	1
CK4,0-ED..., cross section 6 - 10 mm ²	CRIMPFOX-M TC 10/DIE	1212076	1
Die, for RG 174, RG 179, BNC, TNC coaxial connectors for RG 174, RG 179, BNC, TN	CRIMPFOX-M CX-1/DIE	1212087	1
for RG 58, RG 59, RG 62, RG 71, BNC, TNC	CRIMPFOX-M CX-2/DIE	1212088	1
for CATV RG 6,59	CRIMPFOX-M CX-3/DIE	1212089	1
for BNC, TNC, RG6, 1.73, 6.48, 8.23 mm	CRIMPFOX-M CX-4/DIE	1212745	1
for BNC, TNC, 0.70, 3.25, 3.85 mm	CRIMPFOX-M CX-5/DIE	1212746	1
for BNC, TNC, 1.07, 6.48, 8.23 mm	CRIMPFOX-M CX-6/DIE	1212747	1
for BNC, TNC, 1.72, 5.41 mm	CRIMPFOX-M CX-7/DIE	1212748	1
for CATV RG 6.59 1.72, 8.23 mm	CRIMPFOX-M CX-8/DIE	1212749	1
Die, for unshielded RJ45 connectors	CRIMPFOX-M RJ45/DIE	1212090	1
for unshielded RJ11 connectors	CRIMPFOX-M RJ11/DIE	1212091	1
Die, for shrink connectors, 0.5 - 1.5 mm² red and 1.5 - 2.5 mm² blue	CRIMPFOX-M HS/DIE	1219092	1
Die, for shrink connectors, 0.1 - 0.4 mm² green and 4 - 6 mm² yellow	CRIMPFOX-M HS-1/DIE	1212282	1

CRIMPFOX universal pliers for accommodating various dies for data connectors

- One of the key features of the CRIMPFOX-C D crimping pliers is the way the crimp inserts can be quickly replaced without the need for tools
- A space-saving, universal tool for processing data connectors



Basic pliers



Dies for CRIMPFOX-C D

EAC

Ordering data			
Type	Order No.	Pcs./Pkt.	
CRIMPFOX-C D	1212734	1	

EAC

Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX-C RJ11/DIE	1212735	1
CRIMPFOX-C RJ22/DIE	1212736	1
CRIMPFOX-C RJ45/DIE	1212737	1
CRIMPFOX-C RJ45U/DIE	1212738	1
CRIMPFOX-C 10P/DIE	1212739	1
CRIMPFOX-C MMJ/DIE	1212740	1

Description

Basic pliers, for accommodating dies for various contact types, unlockable pressure lock, lateral entry

Die, for unshielded RJ11 connectors

Die, for unshielded RJ22 connectors

Die, for unshielded RJ45 connectors

Die, for unshielded RJ45 connectors, universal

Die, 10-pos.

Die, for DEC MML connectors

Hand tools

Portable crimping machine for ferrules, cable lugs, and connectors



A key feature of the CF 500 is its easy handling and high degree of flexibility.

A huge range of different contact types can be processed with this crimping device. Positioning aids make it easier to crimp the contacts.

- For further information, accessories, and technical data, refer to the AUTOMATIC DEVICES section

Notes:

Further dies and accessories, as well as technical data, can be found at phoenixcontact.net/products

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



Connectors up to 50 mm²

Description

Crimping device, 230 V/50 Hz version, with quantity counter and foot switch

Crimping device, 120 V/60 Hz version, with quantity counter and foot switch

Ordering data

Type	Order No.	Pcs./Pkt.
CF 500-230V	1208348	1
CF 500-120V	1208351	1

Portable automatic stripping and crimping device for taped products



- The compact stripping and crimping device can be used to process taped ferrules with insulating collars in accordance with DIN 46228-4 / UL 486F
- Up to 1000 conductors are processed per hour
- The conductor is stripped in a single operation and is crimped with a ferrule to a high standard of quality

- For further information, accessories, and technical data, refer to the AUTOMATIC DEVICES section

Notes:

¹⁾ Depends on the characteristics of the conductor material and insulation material.

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



Conductor cross sections from 0.25 to 2.5 mm²

Description

Stripping and crimping device, 230 V version, for taped insulated ferrules 0.25 - 2.5 mm², sleeve length 8 mm, incl. conversion kits 0.5 - 2.5 mm²¹⁾

Stripping and crimping device, 120 V version, for taped insulated ferrules 0.25 - 2.5 mm², sleeve length 8 mm, incl. conversion kits 0.5 - 2.5 mm²¹⁾

Ordering data

Type	Order No.	Pcs./Pkt.
CF 3000-2,5	1205477	1
CF 3000-2,5 120V	1205516	1

Stripping and crimping device for loose ferrules



The stripping and crimping device can be used to process loose ferrules from 0.25 to 4 mm² with insulating collars in accordance with DIN 46228-4 / UL 486F.

The optimized sensor technology has improved the processing of small cross sections.

- The conductor is stripped and crimped with a ferrule to a high standard of quality in a single step, which enables up to 1000 conductors to be processed per hour
- For further information, accessories, and technical data, refer to the AUTOMATIC DEVICES section

Notes:

Accessories and replacement parts for older device versions can be found at phoenixcontact.net/products.

¹⁾ Depends on the characteristics of the conductor material and insulation material.



Conductor cross sections from 0.25 to 4 mm²

ERC

Ordering data

Ordering data		
Type	Order No.	Pcs./Pkt.
CF 1000-1,5	1208199	1

Description

Stripping and crimping device, 100 - 240 V version, electro-pneumatic, for loose ferrules with insulating collar, 0.25 - 4 mm², incl. conversion kits 0.5 – 1.5 mm² (sleeve length 6 - 12 mm)¹⁾

Hand tools

CRIMPHANDY, portable crimping device



The CRIMPHANDY represents innovation for switchgear manufacturing. You can strip and crimp your conductors in under two seconds, using this portable hand-held device. That's 75% less time than before.

- The CRIMPHANDY impresses with its easy, effortless handling, which helps protect your joints and tendons
- The compact light weight is ideal for mobile use in the field. Up to 2000 crimping operations can be performed, thanks to the high-performance lithium-ion polymer battery
- Automatic cross section monitoring prevents faulty crimping as a result of incorrect conductor sizes
- The attachable waste receptacle collects the discarded insulation. It thereby helps to ensure a clean working environment
- The cutting unit provides a convenient option of cutting the conductors to length right at the device
- The AI...S ferrules in accordance with UL 486F are UL-certified when used in combination with the CF CRIMPHANDY



Notes:

¹⁾ These color and/or length variants of ferrules are currently not included in DIN 46228-4 and UL 486F, and are therefore not UL-certified. As of 11/2018.
Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.



Conductor cross section 0.5 mm²

ERC

Dimensions	
	[mm]
General data	
Weight	[kg]
Conductor	[mm ²] / AWG
Working cycle	[s]
Insertion length	[mm]
Crimping	

Description

Mobile crimping device, battery-powered, for processing taped ferrules with function end, incl. battery, charger (100 - 240 V), CUTFOX 12 cable cutter, service tool for troubleshooting and one strip of ferrules, packaged in a robust case

suitable for standard PVC conductors (H05VK, H07VK class 5)

Taped ferrules, with function end, 8 mm, with plastic sleeve, in accordance with DIN 46228-4 and UL 486F, UL and CSA-certified, 50 pieces per strip, 20 strips per unit pack

in accordance with DIN 46228-4, UL 486F, and NFC 63-023 Special color¹⁾

in accordance with DIN 46228-4 and UL 486F Special color¹⁾

in accordance with NFC 63-023¹⁾

in accordance with DIN 46228-4, UL 486F, and NFC 63-023 Special color¹⁾

in accordance with DIN 46228-4, UL 486F, and NFC 63-023 Special color¹⁾

Replacement battery, for CF CRIMPHANDY..., Li-ion 7.4 V, 0.68 Ah

Replacement waste guide plate 1, for CF CRIMPHANDY...

Replacement waste guide plate 2,
for CF CRIMPHANDY 0,5
for CF CRIMPHANDY 0,75
for CF CRIMPHANDY 1,0
for CF CRIMPHANDY 1,5

Replacement service tool, for rectifying malfunctions

for CF CRIMPHANDY 0,5
for CF CRIMPHANDY 0,75

for CF CRIMPHANDY 1,0
for CF CRIMPHANDY 1,5

Cutting unit, for CF CRIMPHANDY, for copper wires from 0.5 - 1.5 mm², incl. receptacle tray

Replacement charger, for CF CRIMPHANDY..., 100 - 240 V AC

Technical data		
Width	Length	Height
43	205	70

0.43
- 0.5 / -
< 2
> 32 mm
Square crimp

Ordering data

Type	Order No.	Pcs./Pkt.
CF CRIMPHANDY 0,5	1212463	1

Accessories

AI 0,5-8 WH-S AI 0,5-8 OG-S	1212521 1212784	1000 1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/GP1	1212514	1
CF CRIMPHANDY 0,5/GP2	1212515	1
CF CRIMPHANDY 0,5/SERVICE-TOOL	1212787	1
CF CRIMPHANDY CUTTER	1212520	1
CF CRIMPHANDY/CHARGER	1212519	1

Conductor cross section 0.75 mm²Conductor cross section 1.0 mm²Conductor cross section 1.5 mm²

ERC

Technical data		
Width	Length	Height
43	205	70
0.43 - 0.75 / - < 2 > 32 mm Square crimp		

Ordering data		
Type	Order No.	Pcs./Pkt.
CF CRIMPHANDY 0,75	1212464	1

Accessories		
AI 0,75- 8 GY-S AI 0,75- 8 WH-S AI 0,75- 8 BU-S	1212522 1212783 1212785	1000 1000 1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/GP1	1212514	1
CF CRIMPHANDY 0,75/GP2	1212516	1
CF CRIMPHANDY 0,75/SERVICE-TOOL	1212786	1
CF CRIMPHANDY CUTTER	1212520	1
CF CRIMPHANDY/CHARGER	1212519	1

ERC

Technical data		
Width	Length	Height
43	205	70
0.43 - 1 / - < 2 > 32 mm Square crimp		

Ordering data		
Type	Order No.	Pcs./Pkt.
CF CRIMPHANDY 1,0	1212465	1

Accessories		
AI 1,0-8 RD-S AI 1,0-8 YE-S	1212523 1212782	1000 1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/GP1	1212514	1
CF CRIMPHANDY 1,0/GP2	1212517	1
CF CRIMPHANDY 1,0/SERVICE-TOOL	1212759	1
CF CRIMPHANDY CUTTER	1212520	1
CF CRIMPHANDY/CHARGER	1212519	1

ERC

Technical data		
Width	Length	Height
43	205	70
0.43 - 1.5 / - < 2 > 32 mm Square crimp		

Ordering data		
Type	Order No.	Pcs./Pkt.
CF CRIMPHANDY 1,5	1212466	1

Accessories		
AI 1,5-8 BK-S AI 1,5-8 RD-S	1212524 1212781	1000 1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/GP1	1212514	1
CF CRIMPHANDY 1,5/GP2	1212844	1
CF CRIMPHANDY 1,5/SERVICE-TOOL	1212708	1
CF CRIMPHANDY CUTTER	1212520	1
CF CRIMPHANDY/CHARGER	1212519	1



Flat-bladed screwdriver, uninsulated

ERC

Ordering data

Type	Order No.	Pcs./Pkt.
SF-SL 0,4X2,0-60	1212546	10
SF-SL 0,4X2,5-75	1212547	10
SF-SL 0,5X3,0-80	1212548	10
SF-SL 0,6X3,5-100	1212549	10
SF-SL 0,6X3,5-200	1212550	10
SF-SL 0,8X4,0-100	1212551	10
SF-SL 1,0X5,5-150	1212552	10
SF-SL 1,2X6,5-150	1212553	10
SF-SLIC 1,2X7,0-125	1212554	10
SF-SLIC 1,6X10-175	1212555	10

Hand tools

SCREWFOX screwdrivers for Phillips and slotted-head screws



- Screwdriver for Phillips screws, with Pozidriv® and Phillips Recess® screw head
- VDE approval
- The SZG ... screwdrivers have been specially designed for driving in test socket screws safely and without slipping
- The hexagon head of the handle prevents it rolling away
- The micro-textured blade prevents slipping out of the screw

Notes:

Pozidriv®/Supadriv®, trademarks of European Ind. Serv. Ltd.
Phillips Recess®, trademark of Phillips Screw Company



VDE crosshead screwdrivers with Pozidriv® and Phillips Recess® drive



Ordering data

Description	Type	Order No.	Pcs./Pkt.
Screwdrivers, for Pozidriv®/Supadriv® Phillips screws, VDE approval			
Size: PZ0 x 80 mm, length: 161 mm	SZK PZ0 VDE	1206447	10
Size: PZ1 x 80 mm, length: 178 mm	SZK PZ1 VDE	1206450	10
Size: PZ2 x 100 mm, length: 205 mm	SZK PZ2 VDE	1206463	10
Size: PZ3 x 150 mm, length: 262 mm	SZK PZ3 VDE	1212599	10
Screwdrivers, for Phillips Recess® screws, VDE approval			
Size: PH0 x 80 mm, length: 161 mm	SZK PH0 VDE	1205147	10
Size: PH1 x 80 mm, length: 178 mm	SZK PH1 VDE	1205150	10
Size: PH2 x 100 mm, length: 205 mm	SZK PH2 VDE	1205163	10
Size: PH3 x 150 mm, length: 262 mm	SZK PH3 VDE	1212536	10
Screwdrivers, for Pozidriv® Phillips screws			
Size: PZ0 x 60 mm, length: 141 mm			
Size: PZ1 x 80 mm, length: 178 mm			
Size: PZ2 x 100 mm, length: 205 mm			
Size: PZ3 x 150 mm, length: 262 mm			
Screwdrivers, for Phillips Recess® screws			
Size: PH0 x 60 mm, length: 141 mm			
Size: PH1 x 80 mm, length: 178 mm			
Size: PH2 x 100 mm, length: 205 mm			
Size: PH3 x 150 mm, length: 262 mm			
Screwdriver, for Pozidriv®/Supadriv® Phillips screws, VDE approval			
Size: PZ1 x 80 mm, length: 178 mm			
Size: PZ2 x 100 mm, length: 205 mm			
Size: PH1 x 80 mm, length: 178 mm			
Size: PH2 x 100 mm, length: 205 mm			
Screwdriver, for test socket screws, with VDE approval			
For 2.3 mm Ø screw, blade: 0.6 x 3.5 x 100 mm, length: 198 mm			
For 4 mm Ø screw, blade: 0.9 x 6.5 x 175 mm, length: 287 mm			





Crosshead screwdrivers with Pozidriv® and Phillips Recess® drive, uninsulated



VDE screwdriver with plus-minus drive



VDE screwdriver with staggered blade for test socket screws

EAC

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Ordering data		
Type	Order No.	Pcs./Pkt.
SF-PZ 0-60	1212562	10
SF-PZ 1-80	1212563	10
SF-PZ 2-100	1212564	10
SF-PZ 3-150	1212565	10
SF-PH 0-60	1212558	10
SF-PH 1-80	1212559	10
SF-PH 2-100	1212560	10
SF-PH 3-150	1212561	10

Ordering data		
Type	Order No.	Pcs./Pkt.
SF-PZSL 1-80 VDE	1212556	10
SF-PZSL 2-100 VDE	1212557	10
SF-PHSL 1-80 VDE	1212283	10
SF-PHSL 2-100 VDE	1212288	10

Ordering data		
Type	Order No.	Pcs./Pkt.
SZG 0,6X3,5 VDE	1205121	10
SZG 0,9X6,5 VDE	1205134	10

Hand tools

SCREWFOX screwdrivers for Phillips and slotted-head screws with integrated protective insulation



- In addition to catering for standard applications, SF-SL ... screwdrivers are particularly suited to the assembly of modular terminal blocks
- VDE-tested, for maximum safety
- Because the insulation runs into the shaft, there is no protruding edge



VDE flat-bladed screwdrivers with integrated insulation



Ordering data		
Type	Order No.	Pcs./Pkt.
SF-SL 0,6X3,5-100 S-VDE	1212587	10
SF-SL 0,8X4,0-100 S-VDE	1212588	10
SF-SL 1,0X5,5-125 S-VDE	1212589	10

Description
Screwdriver/actuation tool , for slotted-head screws/spring-cage terminal blocks, protective insulation integrated into the shaft, two-component handle, with non-slip grip, VDE-insulated
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm
Screwdriver , protective insulation integrated into shaft, insulated according to VDE Size: PZ1 x 80 mm Size: PZ2 x 100 mm
Screwdriver , protective insulation integrated into shaft, insulated according to VDE Size: PH1 x 80 mm Size: PH2 x 100 mm
Screwdriver , protective insulation integrated into shaft, insulated according to VDE Size: Pozidriv® - bladed (plus-minus) PZ1 x 80 mm Size: Pozidriv® - bladed (plus-minus) PZ2 x 100 mm
Screwdriver , protective insulation integrated into shaft, insulated according to VDE Size: Phillips Recess® - bladed (plus-minus) PH1 x 80 mm Size: Phillips Recess® - bladed (plus-minus) PH2 x 100 mm
Screwdriver set , protective insulation integrated in the shaft, slotted, Phillips crosshead, combined profile, Pozidriv® + slotted (plus/minus), VDE-insulated, 7-piece, including wall bracket, set contains the following items: 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PH1 x 80; PH2 x 100; PZSL1 x 80; PZSL2 x 100





VDE screwdrivers with Pozidriv® or Phillips Recess® drive, with integrated insulation



VDE screwdrivers with plus-minus drive, with integrated insulation



VDE screwdriver with various drives and integrated insulation

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Ordering data		
Type	Order No.	Pcs./Pkt.
SF-PZ 1-80 S-VDE	1212695	10
SF-PZ 2-100 S-VDE	1212696	10
SF-PH 1-80 S-VDE	1212693	10
SF-PH 2-100 S-VDE	1212694	10

Ordering data		
Type	Order No.	Pcs./Pkt.
SF-PZSL 1-80 S-VDE	1212699	10
SF-PZSL 2-100 S-VDE	1212700	10
SF-PHSL 1-80 S-VDE	1212697	10
SF-PHSL 2-100 S-VDE	1212698	10

Ordering data		
Type	Order No.	Pcs./Pkt.
SF-SL/PH/PZ-SL SET S-VDE	1212701	1

Hand tools

SCREWFOX screwdriver and actuation tool for PT, ST, and QTC terminal blocks



- In addition to their standard application, these screwdrivers are particularly suited to actuating terminal blocks from the PT ..., ST ..., and QTC ... series
- The defined blade angle opens the spring terminal block as far as possible without leaving any damage
- The ST-BW ... curved versions are ideal for use in narrow areas

Description
Screwdriver/actuation tool, uninsulated, for slotted-head screws, PT, ST, and QTC terminal blocks
Blade: 0.4 x 2.5 x 75 mm, length: 156 mm
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm
Screwdriver/actuation tool, insulated, for slotted-head screws and all PT, ST, and QTC terminal blocks, 2.5 mm² and 4 mm²
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm
Actuation tool, insulated, for all PT, ST, and QTC terminal blocks, 2.5 mm² and 4 mm²
Blade: 0.6 x 3.5 mm
Actuation tool, insulated, for all PT and ST terminal blocks, 1.5 mm²
Blade: 0.4 x 2.5 mm



Bladed screwdriver and actuation tool for PT, ST, and QTC terminal blocks, uninsulated

ERC

Ordering data		
Type	Order No.	Pcs./Pkt.
SZF 0-0,4X2,5	1204504	10
SZF 1-0,6X3,5	1204517	10
SZF 2-0,8X4,0	1204520	10
SZF 3-1,0X5,5	1206612	10





Bladed screwdriver and actuation tool for PT, ST, and QTC terminal blocks, insulated



Actuation tool for PT and ST terminal blocks, insulated



Actuation tool for PT and ST terminal blocks, insulated

EAC

EAC

Ordering data		
Type	Order No.	Pcs./Pkt.
SZS 0,6X3,5	1205053	10

Ordering data		
Type	Order No.	Pcs./Pkt.
ST-BW	1207608	10

Ordering data		
Type	Order No.	Pcs./Pkt.
ST-BW 0	1200135	10

Tools – TOOL fox

Hand tools

SCREWFOX screwdriver for Torx® screws

- VDE-tested, for maximum safety
- Optimum edge geometries increase the bearing surface and prevent the screw from being over-tightened



VDE screwdriver for Torx® screws



Screwdriver for Torx® screws
and Torx® safety screws, uninsulated

Description	Ordering data			Type	Ordering data		
	Type	Order No.	Pcs./Pkt.		Type	Order No.	Pcs./Pkt.
Screwdriver, for Torx® screws							
Size: TX 8 x 80 mm	SF-TX 8X80 VDE	1200155	1		SF-TXH 8X60	1200148	1
Size: TX 10 x 80 mm	SF-TX 10X80 VDE	1200156	1		SF-TXH 10X80	1200149	1
Size: TX 15 x 80 mm	SF-TX 15X80 VDE	1200157	1		SF-TXH 15X80	1200150	1
Size: TX 20 x 80 mm	SF-TX 20X80 VDE	1200158	1				
Size: TX 20 x 100 mm					SF-TXH 20X100	1200151	1
Size: TX 25 x 100 mm	SF-TX 25X100 VDE	1200159	1		SF-TXH 25X100	1200152	1
Size: TX 30 x 100 mm	SF-TX 30X100 VDE	1200160	1				
Size: TX 30 x 115 mm					SF-TXH 30X115	1200153	1

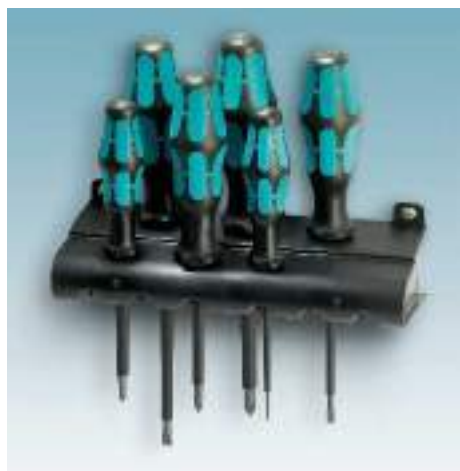
SCREWFOX single-position voltage tester



Single-position voltage tester

Description	Ordering data		
	Type	Order No.	Pcs./Pkt.
Voltage tester , single-position, for 150 - 250 V, conforms to DIN 57680/6 and VDE 0680/6, can also be used as an actuation tool for spring-cage terminal blocks, VDE insulated, with non-slip grip, size: 0.5 x 3.0 x 70 mm	SF-VT VDE	1212598	10

TOOL fox, screwdriver set



Notes:

Pozidriv®/Supadriv®,
trademarks of European Ind. Serv. Ltd.
Phillips Recess®,
trademark of Phillips Screw Company
Torx®,
trademark of Acument Intellectual Properties, LLC, Troy, Mich., US



Screwdriver sets

- The SF-...SET ... screwdriver sets are available in different versions
- Including wall bracket holder for screwdrivers

Description
Screwdriver set , slotted/Phillips Recess®, 6-part, including wall bracket, contents: 0.5 x 3.0 x 80; 0.8 x 4.0 x 100; 1.0 x 5.5 x 150; 1.2 x 6.5 x 150, PH 1, PH 2
Screwdriver set , slotted/Pozidriv® cross-recessed, 6-part, including wall bracket, contents: 0.5 x 3.0 x 80; 0.8 x 4.0 x 100; 1.0 x 5.5 x 150; 1.2 x 6.5 x 150, PZ 1, PZ 2
Screwdriver set , slotted/Pozidriv® cross-recessed, VDE-insulated, 6-part, including wall bracket, contents: 0.4 x 2.5 x 80; 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PZ 1, PZ 2
Screwdriver set , slotted/Phillips Recess®, VDE-insulated, 6-part, including wall bracket, contents: 0.4 x 2.5 x 80; 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PH 1, PH 2
Screwdriver set , protective insulation integrated in the shaft, slotted, Phillips crosshead, combined profile, Pozidriv® + slotted (plus/minus), VDE-insulated, 7-piece, including wall bracket, set contains the following items: 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PH1 x 80; PH2 x 100; PZSL1 x 80; PZSL2 x 100
Screwdriver set , Torx® with bore hole, 6-part, including wall bracket, contents: TX 8 x 60; TX 10 x 80; TX 15 x 80; TX 20 x 100; TX 25 x 100; TX 30 x 115
Screwdriver set , Torx®, VDE-insulated, 6-part, including wall bracket, contents: TX 8 x 80; TX 10 x 80; TX 15 x 80; TX 20 x 80; TX 25 x 100; TX 30 x 100

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Ordering data

Type	Order No.	Pcs./Pkt.
SF-SL/PH SET	1212541	1
SF-SL/PZ SET	1212542	1
SF-SL/PZ SET VDE	1212540	1
SF-SL/PH SET VDE	1212539	1
SF-SL/PH/PZ-SL SET S-VDE	1212701	1
SF-TXH SET	1212538	1
SF-TX SET VDE	1212537	1



Tools – TOOL fox

Hand tools

TOOL fox, bit set



- Bit set, in compact plastic box, with quick-change bit holder and the following 25 mm long bits: 0.8 x 5.5, 1.0 x 5.5, 1.2 x 6.5, PH1, PH2, PH3, PZ1, PZ2, PZ3
- Clearly arranged storage
- Bits can be accessed quickly, thanks to convenient, one-handed opening mechanism
- Equipped with hardened bits for durability



Bit set, 10-piece

Description

Bit set, with SF-UBH universal bit holder, 25 mm long slotted/cross-recessed (PZ and PH) bits, 10-part

Ordering data

Type	Order No.	Pcs./Pkt.
SF-BIT SET	1212545	1

TOOL fox, screwdriver set



- Bit screwdriver set, packed in a practical belt pouch
- Equipped with the most common types of screw bit



Bit screwdriver set, 17-piece

Description

Bit screwdriver set with quick-action chuck, 89 mm long slotted/crosshead (PZ and PH)/ Hex / Torx® bits, 17-part, in folding belt pouch, contents: PH 1,2,3 x 89; PZ 1,2,3 x 89; SL 1,5 x 5,5 x 89; TX 10-30 x 89; SW 3,4,5,6 x 89

Bit screwdriver set with quick-action chuck, 89 mm long slotted/crosshead/hex/Torx® bits, 17-piece, in folding belt pouch, contents: PH 1, 2, 3 x 89, SL 0.4 x 2.5, 0.6 x 3.5, 0.8 x 3.5, 1.0 x 5.5, 1.2 x 6.5 x 89, TX 10-30, SW 3, 4, 5 x 89

Ordering data

Type	Order No.	Pcs./Pkt.
SF-M SET	1212543	1
SF-M SET 2	1212756	1

SCREWFOX torque screwdriver



- Torque screwdriver with hexagonal fast connection holder
- High-precision, infinitely adjustable torque screwdriver, in accordance with EN ISO 6789
- Optimum readability of the adjusted torques on the scale on the shaft
- Unlimited release torque
- TSD-M ... torque screwdrivers are adjustable from 0.3 - 6.0 Nm



Torque screwdriver, 0.3 - 6.0 Nm, adjustable

ERC

Ordering data

Type	Order No.	Pcs./Pkt.
TSD-M 1,2NM	1212224	1
TSD-M 3NM	1212225	1
TSD-M 6NM	1212226	1

Accessories

BHN 5,5	1209965	1
BHN 8	1209978	1
BHN 10	1209981	1
BHN 13	1209994	1
BF 6,3	1209936	1
TSD-M SAC-BIT ADAPTER	1212600	1
SF-UBH	1212590	1

Description

Torque screwdriver

adjustable from 0.3 ... 1.2 Nm
adjustable from 1.2 ... 3 Nm
adjustable from 3 ... 6 Nm

Socket wrench insert, magnetic, hexagonal, 1/4" drive, suitable for holders in accordance with DIN 3126-F 6,3 / ISO 1173

Wrench size of 5.5 mm
Wrench size of 8 mm
Wrench size of 10 mm
Wrench size of 13 mm

Adapter for 1/4"

Adapter insert, for torque screwdrivers with adjustable torque, accommodates SAC nuts for 4 mm hexagonal screwdrivers

Universal bit holder, E6,3-1/4" drive, with automatic locking, one-hand operation, magnetic, for bits in accordance with DIN 3126 C 6,3 and E 6,3



Hand tools

SCREWFOX cordless screwdriver



- Cordless screwdriver with two-speed gearbox, forward/reverse running and 21-stage clutch with drilling stage of up to 600 rpm
- 0.3 ... 4.4 Nm adjustable
- 6.3 mm hexagonal quick connection drill chuck
- Integrated LEDs are used to illuminate the working area

- With optional snap-on protective cap to prevent unintentional torque adjustment
- High torque accuracy through electronic disconnecting coupling
- Ergonomic, non-slip handle design



Cordless screwdriver with torque adjustment, 21-stage

Description

Cordless screwdriver, 3.6 V, incl. rechargeable battery, 1.5 Ah

Cordless screwdriver set, incl. two batteries and charger, 230 V, packaged in a robust aluminum case

Replacement charger, for SF-ASD 21 cordless screwdriver, 230 V

Replacement battery, for SF-ASD 21, Li-ion 3.6 V, 1.5 Ah

Ordering data

Type	Order No.	Pcs./Pkt.
SF-ASD 21	1212532	1
SF-ASD 21 SET 230V	1212530	1

Accessories

SF-ASD 21/CHARGER 230V	1212535	1
SF-ASD 21/ACCU 1,5 AH	1212533	1

SF-ASD 16 cordless screwdriver

new



- Two-speed cordless screwdriver, right/left rotation, and 16-stage clutch with drilling speed of up to 450 rpm
- 0.2 ... 4.3 Nm adjustable
- 6.3 mm hexagonal quick connection drill chuck
- Comfortable one-handed operation in a straight or angled position

Description

Cordless screwdriver, 3.6 V, incl. rechargeable battery, 1.5 Ah

Cordless screwdriver set in case, incl. battery, 100 V ... 240 V charger, 2 bits, two-speed, right/left rotation and 16-stage clutch up to 450 rpm, hexagonal fast connection

Replacement battery, 1.5 Ah, lithium-ion, 3.6 V, for SF-ASD 16 cordless screwdriver

Replacement charger, for SF-ASD 16 cordless screwdriver, 100 V ... 240 V



Cordless screwdriver with adjustable torque, 16-stage

Ordering data

Type	Order No.	Pcs./Pkt.
SF-ASD 16	1200294	1
SF-ASD 16 SET	1200295	1

Accessories

SF-ASD 16/ACCU 1,5 AH	1200297	1
SF-ASD 16/CHARGER	1200296	1

SCREWFOX bit hand holder

The bit hand holder SF-M BH is equipped with ergonomic 2-component handles. This enables fatigue-free working, while transmitting maximum power and thereby enabling a secure hold.

- The hexagon head of the handle prevents it rolling away
- Single-handed bit change, thanks to special locking mechanism
- With magnet

- The freewheeling housing of the bit holder enables the tool to go right to the tip during the screw procedure

**Bit screwdriver**

Description
Bit screwdriver , with 1/4" quick-action chuck, suitable for bits in accordance with DIN 3126-C 6.3 and E 6.3/ISO 1173, magnetic
Bit screwdriver black

Ordering data		
Type	Order No.	Pcs./Pkt.
SF-M BH	1212070	5

SCREWFOX universal bit holder

The SF-UBH universal bit holder enables secure, free-of-play insertion of 1/4" bits (C6,3/E6,3) as well as quick bit change.

- Single-handed bit change, thanks to special locking mechanism
- With magnet
- The freewheeling housing of the bit holder enables the tool to go right to the tip during the screw procedure

**Universal bit holder**

Description
Universal bit holder , E6,3-1/4" drive, with automatic locking, one-hand operation, magnetic, for bits in accordance with DIN 3126 C 6,3 and E 6,3
silver

Ordering data		
Type	Order No.	Pcs./Pkt.
SF-UBH	1212590	1



Screw bit, plus/minus



Screw bit, Torx®



Screw bit, hex

ERC

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Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
SF-BIT-PZSL 1-70	1212603	5						
SF-BIT-PZSL 2-70	1212604	5						
SF-BIT-PHSL 1-70	1212479	5						
SF-BIT-PHSL 2-70	1212601	5						
			SF-BIT-TX 8-50	1212570	5			
			SF-BIT-TX 10-50	1212573	5			
			SF-BIT-TX 15-50	1212576	5			
			SF-BIT-TX 20-50	1212578	5			
			SF-BIT-TX 25-50	1212585	5			
			SF-BIT-TX 30-50	1212586	5			
			SF-BIT-TX 40-50	1200161	5			
						SF-BIT-HEX 2,5-50	1212646	5
						SF-BIT-HEX 3-50	1212647	5
						SF-BIT-HEX 4-50	1212648	5
						SF-BIT-HEX 5-50	1212649	5
						SF-BIT-HEX 6-50	1212650	5
						SF-BIT-HEX 8-50	1212651	5

SCREWFOX screwdriver tools



SHN ...

- Ergonomically designed two-component grip for fatigue-proof and non-slip use

SF-THEX ...

- Ergonomically designed handles ensure an optimum grip. They help avoid fatigue when working
- The hardened blades are designed for durability
- Optimum edge geometries increase the bearing surface and prevent the screws from being over-tightened
- The hexagonal and Torx® L-keys are aligned in a practical bracket, that enables secure storage and quick removal.
- The matt chrome and phosphate-coated surfaces provide high corrosion protection
- With ball head on long limbs, working on hard to access areas is possible
- Optimum edge geometries increase the contact surface and protect the screws. As a result, higher torques can be applied

Description

Socket wrench, for hexagon screws/nuts, with hollow shaft

Wrench size of 5.5 mm

Wrench size of 8 mm

Wrench size of 13 mm

T-handle screwdriver, for Allen screws, ergonomically shaped handle, matt chrome-plated

Size: hex 2 x 100 mm

Size: hex 2.5 x 100 mm

Size: hex 3 x 100 mm

Size: hex 4 x 150 mm

Size: hex 5 x 150 mm

Size: hex 6 x 200 mm

Size: hex 8 x 200 mm

Size: hex 10 x 200 mm

Allen screw set, for Allen screws, 9-piece, 1.5 to 10.0 mm, matt chrome, with spherical head, including bracket

L-key set, Torx®, TX 8, 9, 10, 15, 20, 25; 27, 30, 40 mm, phosphate coated, with spherical head as of TX 15, including bracket



Hexagon insert bit,
wrench size of 5.5 / 8 / 13 mm

Ordering data

Type	Order No.	Pcs./Pkt.
SHN 5.5	1209855	10
SHN 8	1209868	10
SHN 13	1209923	10





Allen screw,
wrench size 2 - 10 mm



Allen screw set,
wrench size 1.5 - 10 mm



Torx® -SET, TX 8 - 40

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Ordering data		
Type	Order No.	Pcs./Pkt.
SF-THEX 2-100	1212637	5
SF-THEX 2,5-100	1212638	5
SF-THEX 3-100	1212639	5
SF-THEX 4-150	1212640	5
SF-THEX 5-150	1212641	5
SF-THEX 6-200	1212642	5
SF-THEX 8-200	1212643	5
SF-THEX 10-200	1212644	5

Ordering data		
Type	Order No.	Pcs./Pkt.
SF-LHEX SET	1212544	1

Ordering data		
Type	Order No.	Pcs./Pkt.
SF-LTX SET	1200162	1

SCREWFOX torque screwdriver



- TSD ... SAC torque screwdrivers with a range of preset torques from 0.2 Nm to 2.5 Nm
- A wide variety of SAC ... nuts for all kinds of applications
- For the TSD-M ... torque screwdrivers the torque can be set individually
- The TSD-M ... adapters can accommodate the various nuts

Description
Torque screwdriver With preset torque of 0.2 Nm and 4 mm hexagonal drive With preset torque of 0.4 Nm and 4 mm hexagonal drive With a preset torque of 0.8 Nm and a 4 mm hexagonal drive With a preset torque of 2.0 Nm and 4 mm hexagonal drive With a preset torque of 2.5 Nm and 4 mm hexagonal drive
Torque screwdriver adjustable from 0.3 ... 1.2 Nm adjustable from 1.2 ... 3 Nm adjustable from 3 ... 6 Nm
Adapter insert , for torque screwdrivers with adjustable torque, accommodates SAC nuts for 4 mm hexagonal screwdrivers

Nut
assembles sensor/actuator cables with M8 connectors and M8 connectors with insulation displacement connection, for TSD 02 SAC, for 0.2 Nm assembles SACC M8 connectors for assembly with longitudinal knurl, excluding those with insulation displacement connection, for TSD 02 SAC, for 0.2 Nm assembles sensor/actuator cables with M12 connectors and M12 connectors with insulation displacement connection, for TSD 04 SAC, for 0.4 Nm assembles sensor/actuator cables with M12 connectors and M12 connectors with insulation displacement connection, diameter 16 mm, for 0.4 Nm assembles SACC M12 connectors for assembly, excluding those with insulation displacement connection, for TSD 04 SAC, for 0.4 Nm and 0.8 Nm assembles M12 connector with hexagonal stainless steel knurls, wrench size 14, for TSD 04 SAC, for 0.4 Nm for assembly of 7/8" connectors, for TSD 08 SAC, for 0.8 Nm for secure tightening of the pressure nuts with 13 mm wrench size, for TSD 20 SAC, for 0.8 Nm, and 2.0 Nm for secure tightening of the pressure nuts with 24 mm wrench size, for TSD 25 SAC, for 2.5 Nm



Torque screwdriver

ERC

Ordering data			
Type	Order No.	Pcs./Pkt.	
TSD 02 SAC	1208487	1	
TSD 04 SAC	1208429	1	
TSD 08 SAC	1212597	1	
TSD 20 SAC	1212020	1	
TSD 25 SAC	1212315	1	
TSD-M 1,2NM	1212224	1	
TSD-M 3NM	1212225	1	
TSD-M 6NM	1212226	1	
TSD-M SAC-BIT ADAPTER	1212600	1	

Accessories			
SAC BIT M8-D10	1208461	1	
SACC BIT M8-D12	1208474	1	
SAC BIT M12-D15	1208432	1	
SAC BIT M12-D16	1200305	1	
SACC BIT M12-D20	1208445	1	
SAC BIT M12-W14	1212513	1	
SAC BIT MIN-D25	1212512	1	
SAC BIT QUICKON-W13	1212033	1	
SAC BIT HOOD-W 24	1212486	1	

SCREWFOX universal control cabinet key



1



2



3

– Universal control cabinet key with the following closures:

1 = 5, 6, 7-8 mm, square

2 = 7-8 mm, triangle

3 = 3-5 mm, two-way key bit



Four-way closure

Description

Control cabinet key, metal, for all common types of control cabinet

Ordering data

Type	Order No.	Pcs./Pkt.
USS 4	1203149	1

SCREWFOX universal control cabinet key



1



2



3



4

– **Universal control cabinet key**, with strong chain and snap hook, for the following closures:

1 = 5, 6, 7-8, 9-10 mm square

2 = 7, 8 - 9, 10 - 11 mm triangle

3 = 3-5 mm two-way key bit

4 = 6 mm semicircle



Control cabinet key, 9 closures

Description

Control cabinet key, metal, for all common types of control cabinet

Ordering data

Type	Order No.	Pcs./Pkt.
SF-CCK 9	1212525	1

Tools – TOOL fox

Hand tools

Tool boxes with sockets

- Solid 1/4" screw set with comprehensive equipment
- Made from chrome vanadium steel for a long service life
- With right/left switching
- Ratcheting mechanism with 48 teeth enabling precise working, even in tight work environments
- With ball locking device, for secure hold of sockets and attachments
- Optimum power transmission, without damaging the screw head, thanks to special edge geometries
- Robust case for safe storage



Socket tray, 47-part

Description

Socket tray 1/4", 47-part, 1/4" reversible ratchet, 48 teeth with fast locking system, 1/4" extensions 50 mm and 100 mm, 1/4" screwdriver grip, 1/4" flexible extension 150 mm, 1/4" cardan joint, 1/4" T-handle 2 x 1/4" bit adapter, 13 knurled 1/4" sockets SW 4 / 4,5 / 5 / 5,5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 mm, 21 knurled socket bits: 6 x Torx® T10, T15, T20, T25, T30, T40, 6 x Hex 3, 4, 5, 6, 7, 8 mm, 3 x Phillips recess® PH1, PH2, PH3, 3 x Pozidriv® PZ1, PZ2, PZ3, 3 x slot 4, 5,5, 7 mm, angle pin spanner, Hex 1,27, 1,5, 2, 2,5 mm, breakage and impact resistant plastic case with metal closing flap

Ordering data

Type	Order No.	Pcs./Pkt.
SF-SOCKET SET 47	1200292	1

Measuring tape

- Robust and versatile use
- Easy internal and external measurements, thanks to the movable, magnetic hooks
- With automatic tape feed and locking mechanism
- Abrasion resistant, easily-read scale
- With belt clip
- Available in metric and inch/metric version



Measuring tape: 5 m

Description

Measuring tape, 5 m
Metric
Inch/metric

Ordering data

Type	Order No.	Pcs./Pkt.
MEASURING TAPE 5M	1200298	1
MEASURING TAPE 5M I/M	1200304	1

TESTFOX voltage and continuity tester



- DC and AC voltage tests in the range from 12 V to 1000 V AC/1000 V DC
- Acoustic and optical continuity test
- Vibration alarm for safe voltage detection
- Shock-proof housing that is protected against dust and splash water, IP65



Voltage tester



General data

Voltage range	[V DC]
Voltage range	[V AC]

Technical data

12 ... 1000
12 ... 1000

Ordering data

Description

Voltage tester

Type

DUSPOL EXPERT

Order No.

1209091

Pcs./Pkt.

1

TESTFOX, digital current probe multimeter

- The current probes can be used for voltages of up to 600 V, category III
- They combine the functions of a digital multimeter with those of a current probe
- Contained within a compact and practical housing, so ideal for use in cramped conditions
- All measuring ranges are protected against overload



For DC and AC current

General data

Display scope
Accuracy of display
AC voltage measuring range
DC voltage measuring range
AC current measuring range
DC current measuring range
Resistance measuring range
Continuity test range
Degree of protection
Measuring category
Power supply
Test certificate

Technical data

4000 digits
0,5%
0.1 mV ... 600 V
0.1 mV ... 600 V
10 mA ... 300 A
10 mA ... 300 A
0.1 Ω ... 40 MΩ
Acoustic (50 Ω)
IP30
CAT III 300 V / CAT II 600 V
2 x micro battery 1.5 V, LR03, AAA
IEC/EN 61010-1, DIN VDE 0411

Ordering data

Description

Current probe/multimeter

Type

TESTFOX CC-1

Order No.

1212211

Pcs./Pkt.

1

TESTFOX digital multimeter



- You are bound to be impressed by the technology of the digital multimeters and their quality
- The devices are extremely versatile
- Tested and approved in accordance with applicable IEC/EN 61010 standards independently of certification body
- Suitable for measuring AC voltages and resistance as well as testing continuity and diodes
- TESTFOX M-1 also allows you to measure DC and AC currents, capacitance, and frequencies. Furthermore, it measures temperatures in the -20°C to +800°C range

High-level of safety

- Phase voltages can be detected precisely, thanks to the audible and red light signals
- The devices are used for voltages of up to 600 V category III or 1000 V category II
- They provide professional service technicians and operating engineers with a higher level of protection, thereby ensuring maximum safety during work

Safe cable breakage detection

- Cable breaks and defective lamps in exposed cable ends are followed from the supply side of the phase right through to the point of interruption



Digital multimeter,
with extended scope of functions

ERC

General data

Display scope
Accuracy of display
Volt sensor
AC voltage measuring range
DC voltage measuring range
AC current measuring range
DC current measuring range
Resistance measuring range
Continuity test range
Frequency measuring range
Capacity measuring range
Temperature measuring range
Diode test
Degree of protection
Measuring category
Power supply
Test certificate

Technical data

2000 digits
0.5%
Yes
0.1 mV ... 750 V
0.1 mV ... 1000 V
1 mA ... 10 A
1 mA ... 10 A
0.1 Ω ... 20 MΩ
Yes (25 Ω)
1 Hz ... 20 MHz
1.00 pF ... 2.00 mF
-20°C ... 800°C
Yes (1.5 mA)
IP30
CAT III 600 V / CAT II 1000 V
2 x micro battery 1.5 V, LR03, AAA
IEC/EN 61010-1, DIN VDE 0411

Description

Digital multimeter

Ordering data

Type	Order No.	Pcs./Pkt.
TESTFOX M-1	1212209	1

TOOL fox, tool sets for convenient use on site

- Universal tool sets, with cutting, stripping, crimping, and testing tools from the TOOL fox tool range
- Robust and heavy-duty tool bags for long-term use
- With permanently closeable business card pocket
- With various compartments and options for storing tools and materials
- For more sets, visit phoenixcontact.net/products



Tool set in a carry case wrap



Tool set in a carry case wrap

EAC

Ordering data			
Type	Order No.	Pcs./Pkt.	
TOOL-WRAP	1212505	1	
TOOL-WRAP EMPTY	1212501	1	

EAC

Ordering data		
Type	Order No.	Pcs./Pkt.
TOOL-WRAP-2	1200100	1

Description

Tool carry case wrap, equipped with one of each of the following tools:

CUTFOX-S VDE | CUTFOX 16 VDE |
UNIFOX-C VDE | UNIFOX-P VDE |
SZS 0,4X2,5 | SZS 0,5X3,0 | SZS 1,0X4,0 |
SZS 1,0X6,5 | SZK PH0 | SZK PH1 |
SZK PH2 | DUSPOL EXPERT |
TOOL-WRAP EMPTY

Tool carry-on bag, unequipped

Tool carry case wrap, equipped with one of each of the following tools:

CUTFOX 18 | WIREFOX 10 |
WIREFOX 16-1 | WIREFOX-D 40 |
CRIMPFOX CENTRUS 6H |
SF-SL 0,6X3,5-100 S-VDE |
SF-SL 0,8X4,0-100 S-VDE |
SF-SL 1,0X5,5-125 S-VDE |
SF-PH 1-80 S-VDE | SF-PH 2-100 S-VDE |
SF-PZSL 2-100 S-VDE | TOOL-WRAP EMPTY

Tools – TOOL fox

Hand tools

TOOL fox, tool sets for convenient use on site

- Universal tool sets, with cutting, stripping, crimping, and testing tools from the TOOL fox tool range
- Robust and heavy-duty tool bags for long-term use
- With permanently closeable business card pocket
- With various compartments and options for storing tools and materials
- For more sets, visit phoenixcontact.net/products

new



Tool set in a case

ERC

Description	Ordering data		
	Type	Order No.	Pcs./Pkt.
Tool kit , equipped with each of the following tools: WIREFOX 10 CRIMPFOX DUO 10 AI SORTI BOX RD AI-TWIN SORTI BOX BU TOOL-KIT STANDARD EMPTY			
Tool case , equipped with one of each of the following tools: CUTFOX 18 WIREFOX 10 CRIMPFOX CENTRUS 6S AI SORTI BOX RD TOOL-KIT STANDARD EMPTY	CRIMPFOX DUO 10 SET	1044971	1
Tool kit , equipped with each of the following tools: CUTFOX 18 WIREFOX 10 CRIMPFOX CENTRUS 10S AI SORTI BOX RD TOOL-KIT STANDARD EMPTY			
Tool case , equipped with one of each of the following tools: CRIMPFOX 6S-F WIREFOX 10 WIREFOX-D 40 CUTFOX 18 SZF 1-0,6X3,5 TOOL-KIT STANDARD EMPTY			
Tool case , equipped with one of each of the following tools: CRIMPFOX-M CRIMPFOX-M SR 6-1/DIE CRIMPFOX-M SR 6-2/DIE CRIMPFOX-M SR 6-3/DIE WIREFOX-D SR 6 WIREFOX-D SR 6-1 CUTFOX 16 VDE SZK PH1 VDE SZK PH2 VDE SF-SL 0,6X3,5-100 S-VDE SF-SL 0,8X4,0-100 S-VDE TOOL-KIT STANDARD EMPTY			
Tool kit , empty, with elastic straps to hold tools of different sizes in place	TOOL-KIT STANDARD EMPTY	1212423	1



Tool set in a case



Tool set in a case



Tool set in a case

ERC

ERC

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Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPFOX CENTRUS 6S SET	1213999	1
CRIMPFOX CENTRUS 10S SET	1026994	1

Ordering data		
Type	Order No.	Pcs./Pkt.
TOOL-KIT STANDARD	1212422	1

Ordering data		
Type	Order No.	Pcs./Pkt.
TOOL-KIT SOLAR	1212071	1

Hand tools

TOOL fox, tool sets for convenient use on site

- Universal tool sets, with cutting, stripping, crimping, and testing tools from the TOOL fox tool range
- Robust and heavy-duty tool bags for long-term use
- With permanently closeable business card pocket
- With various compartments and options for storing tools and materials
- For more sets, visit phoenixcontact.net/products



Tool set in a belt pouch

ERC

Ordering data			
Description	Type	Order No.	Pcs./Pkt.
Tool belt pouch , equipped with one of each of the following tools: CUTFOX-S VDE CUTFOX 18 WIREFOX-D 13 UNIFOX-CE VDE USS 4 SZS 0,5X3,0 SZS 1,0X4,0 SZS 1,0X5,5 SZK PH1 SZK PH2 Cutting knife Tape measure 5 m DUSPOL EXPERT TOOL-BELTPOUCH EMPTY	TOOL-BELTPOUCH	1212506	1
Tool belt pouch , empty	TOOL-BELTPOUCH EMPTY	1212502	1
Tool bag , equipped with one of each of the following tools: CUTFOX S VDE CUTFOX 18 WIREFOX 10 VDE WIREFOX-D 13 WIREFOX-D 28 CRIMPFOX-M CRIMPFOX-M 10/DIE UNIFOX-CE VDE UNIFOX-P VDE UNIFOX WP SZS 0,4X2,5 SZS 0,5X3,0 SZS 1,0X4,0 SZS 1,0X6,5 SZK PH0 SZK PH1 SZK PH2 DUSPOL EXPERT USS 4 Cutting knife Tape measure 5 m TOOL CARRIER EMPTY			
Tool bag , empty			
Tool bag , with laptop and document compartments, equipped with one of each of the following tools: CUTFOX 25 VDE CUTFOX-S VDE WIREFOX 10 WIREFOX-D 40 CRIMPFOX-M SET UNIFOX-C VDE UNIFOX-P VDE UNIFOX WP SZS 0,4X2,5 SZS 0,5X3,0 SZS 1,0X4,0 SZS 1,0X6,5 SZK PH0 SZK PH1 SZK PH2 DUSPOL EXPERT USS 4 AI SORTI BOX RD Cutting knife 5 m tape measure TOOL-BAG EMPTY			
Tool bag , with document and laptop compartments, empty			
Tool set , consisting of: CRIMPHANDY 0.5 mm ² (packed in a robust bag), CRIMPHANDY CUTTER, and taped ferrules, 0.5 mm ² , 100 strips with 50 ferrules per strip			
Tool set , consisting of: CRIMPHANDY 0.75 mm ² (packed in a robust bag), CRIMPHANDY CUTTER, and taped ferrules, 0.75 mm ² , 100 strips with 50 ferrules per strip			
Tool set , consisting of: CRIMPHANDY 1.0 mm ² (packed in a robust bag), CRIMPHANDY CUTTER, and taped ferrules, 1.0 mm ² , 100 strips with 50 ferrules per strip			
Tool set , consisting of: CRIMPHANDY 1.5 mm ² (packed in a robust bag), CRIMPHANDY CUTTER, and taped ferrules, 1.5 mm ² , 100 strips with 50 ferrules per strip			



Tool set in a shoulder bag



Tool set in a bag with laptop and document compartments



ERC

ERC

ERC

Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
TOOL-CARRIER	1212503	1						
TOOL-CARRIER EMPTY	1212499	1						
			TOOL-BAG	1212504	1			
			TOOL-BAG EMPTY	1212500	1			
						CF CRIMPHANDY 0,5 SET	1003673	1
						CF CRIMPHANDY 0,75 SET	1003672	1
						CF CRIMPHANDY 1,0 SET	1003671	1
						CF CRIMPHANDY 1,5 SET	1003670	1

Hand tools

TOOL fox, tool sets

- We have put together a number of attractive tool sets for you by selecting products from our comprehensive range of professional tools



RJ45 tool set

ERC

Ordering data		
Type	Order No.	Pcs./Pkt.
Description Stripping, crimping and cutting set , consisting of: cable cutter for copper and aluminum up to 12 mm Ø, stripping tool for stripping multi-core signal, control, and fiberglass cables with 2.5 - 11 mm Ø, insulation thickness of up to 1 mm Basic pliers for accommodating dies for different type of contacts Die, for CRIMPFOX-M, for unshielded RJ45 connectors Cutting, stripping, and crimping set , comprising: cable cutter for copper and aluminum up to Ø 12 mm, stripping tool for cables and conductors with a cross section of 0.02 - 10 mm ² , self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm ² rigid/1.5 mm ² flexible Crimping pliers for ferrules measuring 0.14 - 10 mm ² Stripping, crimping, and screwing set , comprising: screwdriver for slotted-head screws Stripping tool for 0.02 - 10 mm ² cables and conductors, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm ² rigid/1.5 mm ² flexible Crimping pliers for ferrules in accordance with DIN DIN 46228, Parts 1+4, 0.5 - 6 mm ² , front insertion, square crimping Ferrules, CSA-certified, 50 pcs. each of: Al 0,5-8 WH, Al 2,5-8 BU Ferrules, CSA-certified, 100 pcs. each of: Al 0,75-8 GY, Al 1-8 RD, Al 1,5-8 BK Assortment box , made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 500 pieces each of Al 0,25-6 YE, Al 0,34-6 TQ, Al 0,5-8 WH, Al 0,75-8 GY, Al 1-8 RD, Al 1,5-8 BK, 300 pieces of Al 2,5-8 BU, 200 pieces of Al 4-10 GY, 100 pieces of Al 6-12 YE as well as stripping tool for wires and conductors of up to 6 mm ² Crimping pliers for ferrules in accordance with DIN 46228, Part 1+4, 0.5 - 6 mm ² , front insertion, trapezoidal crimp Assortment box , made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 300 pieces of Al 10-12 RD, 200 pieces of Al 16-12 BU, 100 pieces of Al 25-16 YE as well as stripping tool, for stripping wires of 4.5 - 40 mm Crimping pliers for ferrules in accordance with DIN 46228, Part 1+4, 10 - 25 mm ² , lateral insertion, WM crimp Assortment box , metal, empty	TOOL DATA SET	1
	1208856	



Ferrule tool set



Tool and ferrule set



Tool and ferrule set

ERC

ERC

ERC

Ordering data		
Type	Order No.	Pcs./Pkt.
TOOL SET ALLROUND 2	1208843	1

Ordering data		
Type	Order No.	Pcs./Pkt.
TOOL-SET ALLROUND 3	1208953	1

Ordering data		
Type	Order No.	Pcs./Pkt.
CRIMPSET 6	1202072	1
CRIMPSET 25	1202580	1
CRIMPSET 6/25 LEER	1204041	1

Hand tools

CRIMPFOX pliers, laser marked according to customer specifications



- Customize your crimping tool!
- You can now use robust laser engraving to mark CRIMPFOX pliers
- Individual laser marking prevents your tools from being mixed up

Notes:
Matching accessories can be found in main catalog 3 or the product area on our website at phoenixcontact.net/products.
¹⁾ Tools with customer-specific laser marking can be ordered quickly and easily in the product area on our website at phoenixcontact.net/products.

- The advantages of our CRIMPFOX tools:
- Consistently high crimping quality
 - Unlockable pressure lock
 - Marked die stations for precise processing of the relevant cross sections
 - Easy work thanks to improved force transfer
 - Ergonomically designed, non-slip handles

Description
Crimping pliers , for ferrules, in accordance with DIN 46228-1-4 and UL 486F, five marked die stations, laser marked according to customer specifications¹⁾ Lateral entry, 0.25 - 6.0 mm ² , unlockable pressure lock, trapezoidal crimp Front insertion, 0.5 - 6 mm ² , square crimp
Crimping pliers , unlockable pressure lock, lateral entry, oval crimp, laser marked according to customer specifications¹⁾ For insulated cable lugs (light green, red), 0.14 - 1 mm ² , three marked die stations For insulated cable lugs (red, blue), 0.5 - 2.5 mm ² , two marked die stations Crimping pliers , for uninsulated cable lugs, three marked die stations, 0.34 - 2.5 mm ² , unlockable pressure lock, lateral entry, indent crimp, laser marked according to customer specifications¹⁾
Crimping pliers , for uninsulated slip-on sleeves 2.8/4.8/6.3 mm, three marked die stations, B-crimp, 0.1 - 1.5 mm ² , unlockable pressure lock, lateral entry, laser marked according to customer specifications¹⁾
Crimping pliers , for ferrules in accordance with DIN 46228-1/-4 and UL 486F, self-adjusting die, trapezoidal crimp, 0.5 - 6 mm ² , unlockable pressure lock, laser marked according to customer specifications¹⁾ Front insertion Lateral entry Crimping pliers , three marked die stations, 0.5 - 6 mm ² , oval crimp, unlockable pressure lock, lateral entry, laser marked according to customer specifications¹⁾ For insulated cable lugs, symmetrical (red, blue, yellow) For insulated cable lugs, asymmetrical (red, blue, yellow) Crimping pliers , for ferrules in accordance with DIN 46228-1/-4 and UL 486F, unlockable pressure lock, lateral entry, laser marked according to customer specifications¹⁾ Three marked die stations, 10 - 25 mm ² Two marked die stations, 35 - 50 mm ²

TOOLS
FOR YOU

Laser marked according to
customer specifications

TOOLS
FOR YOU

Laser marked according to
customer specifications

TOOLS
FOR YOU

Laser marked according to
customer specifications

ERC

ERC

ERC

Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
CRIMPFOX 6 CUS	1212767	1						
CRIMPFOX 6S-F CUS	1212769	1						
CRIMPFOX-RCI 1 CUS	1212772	1						
CRIMPFOX-RCI 2,5 CUS	1212773	1						
CRIMPFOX-RC 2,5 CUS	1212777	1						
CRIMPFOX-SC 1,5 CUS	1212779	1						
			CRIMPFOX 6T-F CUS	1212771	1			
			CRIMPFOX 6T CUS	1212770	1			
						CRIMPFOX-RCI 6 CUS	1212774	1
						CRIMPFOX-RCI 6-1 CUS	1212775	1
						CRIMPFOX 25R CUS	1212765	1
						CRIMPFOX 50R CUS	1212766	1

TOOLS
FOR YOU

Laser marked according to
customer specifications

TOOLS
FOR YOU

Laser marked according to
customer specifications

new

TOOLS
FOR YOU

Laser marked according to
customer specifications

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Ordering data

Type	Order No.	Pcs./Pkt.
CRIMPFOX CENTRUS 6S CUS	1213164	1
CRIMPFOX CENTRUS 10S CUS	1213174	1
CRIMPFOX CENTRUS 6H CUS	1213166	1
CRIMPFOX CENTRUS 10H CUS	1213176	1

Ordering data

Type	Order No.	Pcs./Pkt.
CRIMPFOX DUO 10 CUS	1044970	1

Ordering data

Type	Order No.	Pcs./Pkt.
WIREFOX 4 CUS	1212762	1
WIREFOX 6SC CUS	1212763	1
WIREFOX 10 CUS	1212760	1
WIREFOX 16 CUS	1212761	1

Hand tools

CUS tool sets, equipped with tools according to customer requirements



You can put together your own CUS tool set according to your individual requirements

- Six different bags are available, designed for typical applications
- Products are configured and ordered with web code:

i #0290

TOOLS
FOR YOU



Tool case, lockable, with straps

Description

Tool case, lockable, with adjustable strap, equipped with: cable cutter, diagonal cutter, micro cutter, stripping and sheath stripping tools, crimping tool set, combination, needle-nose, and water pump pliers, VDE bladed and Phillips screwdrivers, control cabinet key, voltage tester, ferrule box, blades, tape measure, continuity tester, marking tool, ring, open-end, and adjustable wrench set, T-handle hexagonal wrench, safety glasses, hammer, 41-piece ratchet socket wrench set, 1/4"

Tool case, empty, lockable, with permanently closeable business card pocket, very comfortable to carry, thanks to padded strap, with document compartment

Tool case, equipped with tools according to customer requirements

Ordering data

Type	Order No.	Pcs./Pkt.
TOOL-CASE	1212629	1
TOOL-CASE EMPTY	1212628	1
TOOL-CASE CUS	1200072	1

CUS tool sets, equipped with tools according to customer requirements

- Robust and heavy-duty tool bags for long-term use
- With permanently closeable business card pocket
- With various compartments and options for storing tools and materials
- Products are configured and ordered with web code:

i #0290

TOOLS
FOR YOU



Tool bag, with document and laptop compartments

TOOLS
FOR YOU



Tool bag, with strap

Ordering data

Type	Order No.	Pcs./Pkt.
TOOL-BAG CUS	1200081	1

Ordering data

Type	Order No.	Pcs./Pkt.
TOOL-CARRIER CUS	1200082	1

Description

Tool bag, with adjustable strap, with document and laptop compartments, **equipped with tools according to customer requirements**

Tool bag, with strap, **equipped with tools according to customer requirements**

CUS tool sets, equipped with tools according to customer requirements



- Individual tool sets, with cutting, stripping, crimping, installation, and testing tools from the TOOL fox tool range
- Robust and heavy-duty tool bags
- Products are configured and ordered with web code:

i #0290

TOOLS
FOR YOU



Tool belt pouch

Description

Tool belt pouch, with two robust internal pockets, equipped with tools according to customer requirements

Ordering data

Type	Order No.	Pcs./Pkt.
TOOL-BELTPOUCH CUS	1200084	1

CUS tool sets, equipped with tools according to customer requirements

- Products are configured and ordered with web code:

i #0290

TOOLS
FOR YOU



Tool case

TOOLS
FOR YOU



Tool wrap

Ordering data

Type	Order No.	Pcs./Pkt.
TOOL-KIT CUS	1200085	1

Description

Tool case, with elastic straps to hold the tools in place, equipped with tools according to customer requirements

Tool wrap, equipped with tools according to customer requirements

Ordering data

Type	Order No.	Pcs./Pkt.
TOOL-WRAP CUS	1200083	1

Tools – TOOL fox

Hand tools

Tool case with customized marking



- A business card sized label is available for customization. This can be marked according to customer requirements
- Products are configured and ordered with web code:

i #0290

TOOLS
FOR YOU



Tool case, lockable, with strap

Description

Tool case, with permanently closable business card pocket, with US EMP (85.6 x 54) marking label marked according to customer requirements

Ordering data

Type	Order No.	Pcs./Pkt.
TOOL-CASE EMPTY CUS	8191312	1

Tool bags with customized marking

- The tool bags impress with their hard-wearing materials and robust construction
- Products are configured and ordered with web code:

i #0290

TOOLS
FOR YOU



Tool bag, with document and laptop compartments

TOOLS
FOR YOU



Tool bag, with strap

Description

Tool bag, with permanently closeable business card pocket, with US EMP (85.6 x 54) marking label, marked according to customer requirements

Tool bag, with permanently closeable business card pocket, with US EMP (85.6 x 54) marking label, marked according to customer requirements

Ordering data

Type	Order No.	Pcs./Pkt.
TOOL-BAG EMPTY CUS	8191308	1

Ordering data

Type	Order No.	Pcs./Pkt.
TOOL-CARRIER EMPTY CUS	8191310	1

Tool belt pouch with customized marking



- The business card pocket can be permanently closed using the plastic rivets supplied as standard
- Products are configured and ordered with web code:

i #0290

TOOLS
FOR YOU



Tool belt pouch

Description

Tool belt pouch, with permanently closable business card pocket, with US EMP (85.6 x 54) marking label marked according to customer requirements

Ordering data

Type	Order No.	Pcs./Pkt.
TOOL-BELTPOUCH EMPTY CUS	8191311	1

Tool kit, tool wrap with customized marking

- No risk of mixing up tool bags, thanks to the clearly printed labels
- Products are configured and ordered with web code:

i #0290

TOOLS
FOR YOU



Tool kit

TOOLS
FOR YOU



Tool wrap

Ordering data

Type	Order No.	Pcs./Pkt.
TOOL-KIT STANDARD EMPTY CUS	8191307	1

Description

Tool kit, with permanently closeable business card pocket, with US EMP (85.6 x 54) marking label, marked according to customer requirements

Tool wrap, with permanently closable business card pocket, with marking label US EMP (85.6 x 54) marked according to customer requirements

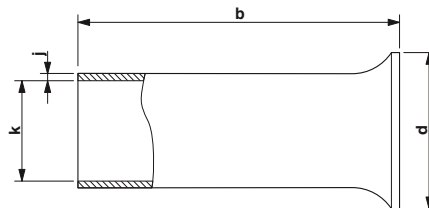
Ordering data

Type	Order No.	Pcs./Pkt.
TOOL-WRAP EMPTY CUS	8191309	1

Hand tools

Ferrules without insulating collar, in accordance with DIN 46228-1

- The ferrules without plastic sleeve are made from soft tin-plated electrolytic copper
- The ferrules correspond to the requirements of DIN 46228-1 and UL 486F in terms of dimension
- The A 0,25... can also be used to process 0.14 mm² conductors
- UL and CSA-certified



Notes:

¹⁾ These color and/or length variants of ferrules are currently not included in DIN 46228-4 and UL 486F, and are therefore not UL-certified. As of 11/2018. Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.



Conductor cross sections from 0.14 to 120 mm²



General data

Material / coating

Technical data

CU-DHP / tin-plated (galvanic)

Ordering data

Description	Cross section		Color
	[mm ²]	AWG	

Ferrules, without plastic sleeves, UL and CSA-certified²⁾

	0.25 ¹⁾	24	silver
	0.25 ¹⁾	24	silver
	0.34 ¹⁾	22	silver
	0.5 ¹⁾	20	silver
	0.5 ¹⁾	20	silver
	0.5	20	silver
	0.75	18	silver
	0.75 ¹⁾	18	silver
	0.75	18	silver
	1	18	silver
	1 ¹⁾	18	silver
	1	18	silver
	1.5	16	silver
	1.5	16	silver
	1.5	16	silver
	1.5 ¹⁾	16	silver
	1.5	16	silver
	2.5	14	silver
	2.5	14	silver
	2.5	14	silver
	4	12	silver
	4	12	silver
	4	12	silver
	6	10	silver
	6	10	silver
	10	8	silver
	10	8	silver
	-	-	silver
	-	-	silver
	16	6	silver
	16	6	silver
	16	6	silver
	25 ¹⁾	4	silver
	25	4	silver
	25	4	silver
	25 ¹⁾	4	silver
	25	4	silver
	25	4	silver
	25 ¹⁾	4	silver
	35	2	silver
	35 ¹⁾	2	silver
	35 ¹⁾	2	silver
	35 ¹⁾	2	silver
	50	1/0	silver
	50 ¹⁾	1/0	silver
	70 ¹⁾	2/0	silver
	95 ¹⁾	3/0	silver
	120 ¹⁾	4/0	silver

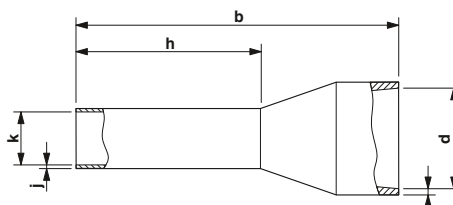
Dimensions [mm]							
a	b	d	h	i	j	k	

-	5.00	1.70	-	-	0.15	0.80	
-	7.00	1.70	-	-	0.15	0.80	
-	7.00	1.80	-	-	0.15	0.90	
-	6.00	2.10	-	-	0.15	1.00	
-	8.00	2.10	-	-	0.15	1.00	
-	10.00	2.10	-	-	0.15	1.00	
-	6.00	2.30	-	-	0.15	1.20	
-	8.00	2.30	-	-	0.15	1.20	
-	10.00	2.30	-	-	0.15	1.20	
-	6.00	2.50	-	-	0.15	1.40	
-	8.00	2.50	-	-	0.15	1.40	
-	10.00	2.50	-	-	0.15	1.40	
-	7.00	2.80	-	-	0.15	1.70	
-	10.00	2.80	-	-	0.15	1.70	
-	12.00	2.80	-	-	0.15	1.70	
-	15.00	2.80	-	-	0.15	1.70	
-	18.00	2.80	-	-	0.15	1.70	
-	7.00	3.40	-	-	0.15	2.20	
-	12.00	3.40	-	-	0.15	2.20	
-	18.00	3.40	-	-	0.15	2.20	
-	9.00	4.00	-	-	0.20	2.80	
-	12.00	4.00	-	-	0.20	2.80	
-	18.00	4.00	-	-	0.20	2.80	
-	10.00	4.70	-	-	0.20	3.50	
-	12.00	4.70	-	-	0.20	3.50	
-	12.00	5.80	-	-	0.20	4.50	
-	18.00	5.80	-	-	0.20	4.50	
-	25.00	5.80	-	-	0.20	4.50	
-	32.00	5.80	-	-	0.20	4.50	
-	12.00	7.50	-	-	0.20	5.80	
-	25.00	7.50	-	-	0.20	5.80	
-	32.00	7.50	-	-	0.20	5.80	
-	12.00	9.50	-	-	0.20	7.30	
-	15.00	9.50	-	-	0.20	7.30	
-	18.00	9.50	-	-	0.20	7.30	
-	20.00	9.50	-	-	0.20	7.30	
-	25.00	9.50	-	-	0.20	7.30	
-	32.00	9.50	-	-	0.20	7.30	
-	40.00	9.50	-	-	0.20	7.30	
-	18.00	11.00	-	-	0.20	8.30	
-	20.00	11.00	-	-	0.20	8.30	
-	40.00	11.00	-	-	0.20	8.20	
-	32.00	11.00	-	-	0.20	8.20	
-	32.00	13.00	-	-	0.30	10.30	
-	40.00	13.00	-	-	0.30	10.30	
-	40.00	15.00	-	-	0.40	12.50	
-	40.00	17.00	-	-	0.40	14.50	
-	40.00	19.00	-	-	0.50	17.70	

Type	Order No.	Pcs./Pkt.
A 0,25- 5	3202465	1000
A 0,25- 7	3202478	1000
A 0,34- 7	3009202	1000
A 0,5- 6	3200218	1000
A 0,5- 8	3202481	1000
A 0,5-10	3202494	1000
A 0,75- 6	3200221	1000
A 0,75- 8	3202504	1000
A 0,75-10	3200234	1000
A 1 - 6	3200247	1000
A 1 - 8	3202517	1000
A 1 -10	3200250	1000
A 1,5- 7	3200263	1000
A 1,5-10	3200276	1000
A 1,5-12	3202588	1000
A 1,5-15	3202591	1000
A 1,5-18	3202601	1000
A 2,5- 7	3200289	1000
A 2,5-12	3200292	1000
A 2,5-18	3202821	1000
A 4 - 9	3200302	1000
A 4 -12	3200315	1000
A 4 -18	3202834	1000
A 6 -10	3202520	500
A 6 -12	3200328	500
A 10 -12	3200331	500
A 10 -18	3200344	500
A 10 -25	1090628	500
A 10 -32	1090629	500
A 16 -12	3200425	100
A 16 -25	1090632	250
A 16 -32	1090633	250
A 25 -12	3200357	100
A 25 -15	3200360	100
A 25 -18	3200373	100
A 25 -20	3200386	100
A 25 -25	1090634	100
A 25 -32	1090636	100
A 25 -40	3241238	100
A 35 -18	3200399	100
A 35 -20	3200409	100
A 35 -40	3241239	100
A 35 -32	1090638	100
A 50 -32	1090639	100
A 50 -40	3241240	100
A 70 -40	3241241	100
A 95 -40	3241242	100
A 120 -40	1090640	50

Ferrules with insulating collar, in accordance with DIN 46228-4: 1990-09 and UL 486F

- The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
- The insulation reliability of close connections is increased and the splicing of wires is prevented
- The AI 0,25... can also be used to process 0.14 mm² conductors
- The ferrules correspond to the requirements of DIN 46228-4 and UL 486F
- UL and CSA-certified



Notes:

¹⁾ These color and/or length variants of ferrules are currently not included in DIN 46228-4 and UL 486F, and are therefore not UL-certified. As of 11/2018. Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.



**Conductor cross sections
from 0.14 to 120 mm²**



General data

Material / coating
Plastic sleeve material
Long/short-term temperature

Technical data

CU-DHP / tin-plated (galvanic)
Polypropylene / free from silicone and halogen
105°C (-40°C no load / 0°C dynamic load) / 120°C

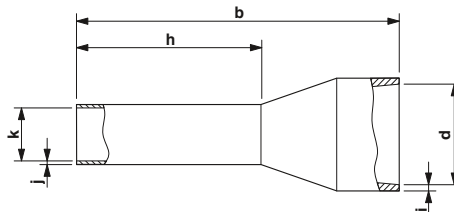
Ordering data

Description	Cross section		Color	Dimensions [mm]							Type	Order No.	Pcs./Pkt.
	[mm²]	AWG		a	b	d	h	i	j	k			
Ferrules, with plastic sleeve, color code in accordance with DIN 46228-4 and UL 486F, UL and CSA-certified													
	0.25 ¹⁾	24	yellow	-	10.50	2.00	6.00	0.25	0.15	0.80	AI 0,25- 6 YE	3203024	100
	0.25 ¹⁾	24	yellow	-	12.50	2.00	8.00	0.25	0.15	0.80	AI 0,25- 8 YE	3203037	100
	0.25 ¹⁾	24	yellow	-	14.50	2.00	10.00	0.25	0.25	0.80	AI 0,25-10 YE	3241128	100
	0.5	20	white	-	12.00	2.50	6.00	0.25	0.15	1.10	AI 0,5 - 6 WH	3200687	100
	0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10	AI 0,5 - 8 WH	3200014	100
	0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10	AI 0,5 - 8 WH -1000	3200881	1000
	0.5	20	white	-	16.00	2.50	10.00	0.25	0.15	1.10	AI 0,5 -10 WH	3201275	100
	0.5 ¹⁾	20	white	-	18.00	2.50	12.00	0.25	0.15	1.10	AI 0,5 -12 WH	3200506	100
	0.75	18	gray	-	12.00	2.80	6.00	0.25	0.15	1.30	AI 0,75- 6 GY	3200690	100
	0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30	AI 0,75- 8 GY	3200519	100
	0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30	AI 0,75- 8 GY -1000	3200894	1000
	0.75	18	gray	-	16.00	2.80	10.00	0.25	0.15	1.30	AI 0,75-10 GY	3201288	100
	0.75	18	gray	-	16.00	2.80	10.00	0.25	0.15	1.30	AI 0,75-10 GY-1000	3203118	1000
	0.75	18	gray	-	18.00	2.80	12.00	0.25	0.15	1.30	AI 0,75-12 GY	3200849	100
	1	18	red	-	12.00	3.00	6.00	0.30	0.15	1.50	AI 1 - 6 RD	3200742	100
	1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50	AI 1 - 8 RD	3200030	100
	1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50	AI 1 - 8 RD -1000	3200904	1000
	1	18	red	-	16.00	3.00	10.00	0.30	0.15	1.50	AI 1 -10 RD	3200182	100
	1	18	red	-	18.00	3.00	12.00	0.30	0.15	1.50	AI 1 -12 RD	3200674	100
	1.5 ¹⁾	16	black	-	12.00	3.40	6.00	0.30	0.15	1.80	AI 1,5 - 6 BK	3200755	100
	1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80	AI 1,5 - 8 BK	3200043	100
	1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80	AI 1,5 - 8 BK -1000	3200917	1000
	1.5	16	black	-	16.00	3.40	10.00	0.30	0.15	1.80	AI 1,5 -10 BK	3200195	100
	1.5	16	black	-	18.00	3.40	10.00	0.30	0.15	1.80	AI 1,5 -10 BK-1000	3203134	1000
	1.5	16	black	-	18.00	3.40	12.00	0.30	0.15	1.80	AI 1,5 -12 BK	3201482	100
	1.5	16	black	-	24.00	3.40	18.00	0.30	0.15	1.80	AI 1,5 -18 BK	3200056	100
	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30	AI 2,5 - 8 BU	3200522	100
	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30	AI 2,5 - 8 BU -1000	3200920	1000
	2.5 ¹⁾	14	blue	-	17.00	4.20	10.00	0.30	0.15	2.30	AI 2,5 -10 BU	3202533	100
	2.5 ¹⁾	14	blue	-	17.00	4.20	10.00	0.30	0.15	2.30	AI 2,5 -10 BU-1000	3203147	1000
	2.5	14	blue	-	18.00	4.20	12.00	0.30	0.15	2.30	AI 2,5 -12 BU	3200962	100
	2.5	14	blue	-	24.00	4.20	18.00	0.30	0.15	2.30	AI 2,5 -18 BU	3200580	100
	4	12	gray	-	17.00	4.80	10.00	0.30	0.20	2.80	AI 4 -10 GY	3200535	100
	4	12	gray	-	20.00	4.80	12.00	0.30	0.20	2.80	AI 4 -12 GY	3200959	100
	4 ¹⁾	12	gray	-	23.00	4.80	15.00	0.30	0.20	2.80	AI 4 -15 GY	1200264	100
	4	12	gray	-	26.00	4.80	18.00	0.30	0.20	2.80	AI 4 -18 GY	3200593	100
	6	10	yellow	-	20.00	6.20	12.00	0.30	0.20	3.50	AI 6 -12 YE	3200548	100
	6	10	yellow	-	26.00	6.20	18.00	0.30	0.20	3.50	AI 6 -18 YE	3200603	100
	10	8	red	-	22.00	7.50	12.00	0.30	0.20	4.60	AI 10 -12 RD	3200551	100
	10	8	red	-	28.00	7.50	18.00	0.30	0.20	4.60	AI 10 -18 RD	3200616	100
	16	6	blue	-	24.00	8.80	12.00	0.40	0.20	5.80	AI 16 -12 BU	3200564	100
	16	6	blue	-	28.00	8.80	18.00	0.40	0.20	5.80	AI 16 -18 BU	3200629	100
	25	4	yellow	-	29.00	11.00	16.00	0.50	0.20	7.30	AI 25 -16 YE	3200577	50
	25	4	yellow	-	32.00	11.00	18.00	0.50	0.20	7.30	AI 25 -18 YE	3201505	50
	25	4	yellow	-	36.00	11.00	22.00	0.50	0.20	7.30	AI 25 -22 YE	3200700	50
	35	2	red	-	30.00	12.50	16.00	0.50	0.20	8.30	AI 35 -16 RD	3200441	50
	35	2	red	-	32.00	12.50	18.00	0.50	0.20	8.30	AI 35 -18 RD	3201495	50
	35	2	red	-	39.00	12.50	25.00	0.50	0.20	8.30	AI 35 -25 RD	3200713	50
	50	1/0	blue	-	36.00	15.00	20.00	0.60	0.35	10.30	AI 50 -20 BU	3200454	50
	50	1/0	blue	-	40.00	15.00	25.00	0.60	0.35	10.30	AI 50 -25 BU	3200726	25
	70 ¹⁾	2	yellow	-	37.00	16.00	20.00	0.60	0.35	12.70	AI 70 -20 YE	3201848	25
	95 ¹⁾	4	red	-	44.00	18.00	25.00	0.60	0.35	14.70	AI 95 -25 RD	3201853	25

Hand tools

Ferrules with insulating collar with color code in acc. with NFC 63-023

- The ferrules correspond to the requirements of DIN 46228-4 and UL 486F in terms of dimension
- The color code of the plastic insulating collar corresponds to the French standard NFC 63-023: 1994-02
- The metal sleeves are made from soft tin-plated electrolytic copper
- UL and CSA-certified



Notes:

¹⁾ These color and/or length variants of ferrules are currently not included in DIN 46228-4 and UL 486F, and are therefore not UL-certified. As of 11/2018. Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.



Conductor cross sections
from 0.5 to 50 mm²



General data

Material / coating
Plastic sleeve material
Long/short-term temperature

Technical data

CU-DHP / tin-plated (galvanic)
Polypropylene / free from silicone and halogen
105°C (-40°C no load / 0°C dynamic load) / 120°C

Ordering data

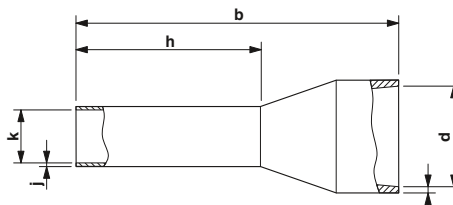
Description	Cross section		Color
	[mm ²]	AWG	
Ferrules, with plastic sleeve, color code in accordance with NFC63-023, UL, and CSA-certified	0.5	20	white
	0.5	20	white
	0.5	20	white
	0.5	20	white
	0.5 ¹⁾	20	white
	0.75 ¹⁾	18	blue
	0.75 ¹⁾	18	blue
	1	18	red
	1	18	red
	1	18	red
	1	18	red
	1	18	red
	1.5 ¹⁾	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	2.5 ¹⁾	14	gray
	2.5 ¹⁾	14	gray
	2.5 ¹⁾	14	gray
	2.5 ¹⁾	14	gray
	4 ¹⁾	12	orange
	4 ¹⁾	12	orange
	4 ¹⁾	12	orange
	4 ¹⁾	12	orange
	6 ¹⁾	10	green
	6 ¹⁾	10	green
	6 ¹⁾	10	green
	10 ¹⁾	8	brown
	10 ¹⁾	8	brown
	16 ¹⁾	6	ivory
	25 ¹⁾	4	black
	25 ¹⁾	4	black
	35	2	red
	35	2	red
	50	1/0	blue
	50	1/0	blue

Dimensions [mm]							
a	b	d	h	i	j	k	
-	12.00	2.50	6.00	0.25	0.15	1.10	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	16.00	2.50	10.00	0.25	0.15	1.10	
-	18.00	2.50	12.00	0.25	0.15	1.10	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	12.00	3.00	6.00	0.30	0.15	1.50	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	16.00	3.00	10.00	0.30	0.15	1.50	
-	18.00	3.00	12.00	0.30	0.15	1.50	
-	12.00	3.40	6.00	0.30	0.15	1.80	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	16.00	3.40	10.00	0.30	0.15	1.80	
-	18.00	3.40	12.00	0.30	0.15	1.80	
-	24.00	3.40	18.00	0.30	0.15	1.80	
-	14.00	4.20	8.00	0.30	0.15	2.30	
-	14.00	4.20	8.00	0.30	0.15	2.30	
-	18.00	4.20	12.00	0.30	0.15	2.30	
-	24.00	4.20	18.00	0.30	0.15	2.30	
-	17.00	4.80	10.00	0.30	0.20	2.80	
-	17.00	4.80	10.00	0.30	0.20	2.80	
-	20.00	4.80	12.00	0.30	0.20	2.80	
-	26.00	4.80	18.00	0.30	0.20	2.80	
-	20.00	6.20	12.00	0.30	0.20	3.50	
-	20.00	6.20	12.00	0.30	0.20	3.50	
-	20.00	6.20	12.00	0.30	0.20	3.50	
-	26.00	6.20	18.00	0.30	0.20	3.50	
-	22.00	7.50	12.00	0.30	0.20	4.60	
-	28.00	7.50	18.00	0.30	0.20	4.60	
-	24.00	8.80	12.00	0.40	0.20	5.80	
-	30.00	11.00	16.00	0.50	0.20	7.30	
-	36.00	11.00	22.00	0.50	0.20	7.30	
-	30.00	12.50	16.00	0.50	0.20	8.30	
-	39.00	12.50	25.00	0.50	0.20	8.30	
-	36.00	15.00	20.00	0.60	0.35	10.30	
-	40.00	15.00	25.00	0.60	0.35	10.30	

Type	Order No.	Pcs./Pkt.
AI 0,5 - 6 WH	3200687	100
AI 0,5 - 8 WH	3200014	100
AI 0,5 - 8 WH -1000	3200881	1000
AI 0,5 -10 WH	3201275	100
AI 0,5 -12 WH	3200506	100
AI 0,75- 8 BU	3200027	100
AI 0,75- 8 BU -1000	1213200	1000
AI 1 - 6 RD	3200742	100
AI 1 - 8 RD	3200030	100
AI 1 - 8 RD -1000	3200904	1000
AI 1 -10 RD	3200182	100
AI 1 -12 RD	3200674	100
AI 1,5 - 6 BK	3200755	100
AI 1,5 - 8 BK	3200043	100
AI 1,5 - 8 BK -1000	3200917	1000
AI 1,5 -10 BK	3200195	100
AI 1,5 -12 BK	3201482	100
AI 1,5 -18 BK	3200056	100
AI 2,5 - 8 GY	3200069	100
AI 2,5 -8 GY -1000	1213201	1000
AI 2,5 -12 GY	3200205	100
AI 2,5 -18 GY	3200072	100
AI 4 -10 OG	3200085	100
AI 4 -10 OG -1000	1213202	1000
AI 4 -12 OG	3200438	100
AI 4 -18 OG	3200098	100
AI 6 -12 GN	3200108	100
AI 6 -12 GN -1000	1213203	1000
AI 6 -18 GN	3200111	100
AI 10 -12 BN	3200124	100
AI 10 -18 BN	3200137	100
AI 16 -12 IV	3201181	100
AI 25 -16 BK	3200412	50
AI 25 -22 BK	3200739	50
AI 35 -16 RD	3200441	50
AI 35 -25 RD	3200713	50
AI 50 -20 BU	3200454	50
AI 50 -25 BU	3200726	25

Ferrules with insulating collar in special colors

- The insulation reliability of close connections is increased and the splicing of wires is prevented
- The conically shaped, Easy Entry insulating collar ensures easy and correct conductor insertion
- The ferrules correspond to the requirements of DIN 46228-4 and UL 486F in terms of dimension
- UL and CSA-certified



Notes:

¹⁾ These color and/or length variants of ferrules are currently not included in DIN 46228-4 and UL 486F, and are therefore not UL-certified. As of 11/2018. Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.



Conductor cross sections
from 0.14 to 120 mm²



General data

Material / coating
Plastic sleeve material
Long/short-term temperature

Technical data

CU-DHP / tin-plated (galvanic)
Polypropylene / free from silicone and halogen
105°C (-40°C no load / 0°C dynamic load) / 120°C

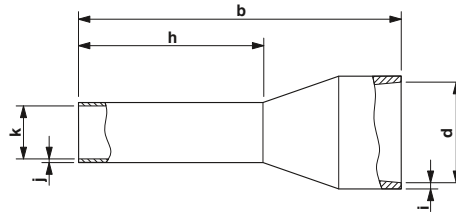
Ordering data

Description	Cross section		Color	Dimensions [mm]							Type	Order No.	Pcs./Pkt.
	[mm²]	AWG		a	b	d	h	i	j	k			
Ferrules, with plastic sleeve, special color code, CSA-certified													
	0.14 ¹⁾	26	gray	-	12.50	2.00	6.00	0.25	0.15	0.80	AI 0,14- 6 GY -1000	1034128	1000
	0.14 ¹⁾	26	gray	-	12.50	2.00	8.00	0.25	0.15	0.80	AI 0,14- 8 GY -1000	3203011	1000
	0.25 ¹⁾	24	blue	-	10.50	2.00	6.00	0.25	0.15	0.80	AI 0,25- 6 BU	3203040	100
	0.25 ¹⁾	24	blue	-	12.50	2.00	8.00	0.25	0.25	0.80	AI 0,25- 8 BU	3201364	100
	0.25 ¹⁾	24	blue	-	16.50	2.00	12.00	0.25	0.15	0.80	AI 0,25-12 BU	3200632	100
	0.34 ¹⁾	22	turquoise	-	10.50	2.00	6.00	0.25	0.15	0.80	AI 0,34- 6 TQ	3203053	100
	0.34 ¹⁾	22	turquoise	-	12.50	2.00	8.00	0.25	0.15	0.80	AI 0,34- 8 TQ	3203066	100
	0.34 ¹⁾	22	turquoise	-	14.50	2.00	10.00	0.25	0.15	0.80	AI 0,34-10 TQ	3241129	100
	0.34 ¹⁾	22	turquoise	-	16.50	2.00	12.00	0.25	0.15	0.80	AI 0,34-12 TQ	3200645	100
	0.5 ¹⁾	20	orange	-	12.00	2.50	6.00	0.25	0.15	1.10	AI 0,5- 6 OG	3201301	100
	0.5 ¹⁾	20	orange	-	14.00	2.50	8.00	0.25	0.15	1.10	AI 0,5- 8 OG	3201123	100
	0.5 ¹⁾	20	orange	-	14.00	2.50	8.00	0.25	0.15	1.10	AI 0,5- 8 OG-1000	3202902	1000
	0.5 ¹⁾	20	orange	-	14.00	2.50	10.00	0.25	0.15	1.10	AI 0,5-10 OG	3241126	500
	0.75 ¹⁾	18	white	-	12.00	2.80	6.00	0.25	0.15	1.30	AI 0,75- 6 WH	3201314	100
	0.75 ¹⁾	18	white	-	14.00	2.80	8.00	0.25	0.15	1.30	AI 0,75- 8 WH	3201110	100
	1 ¹⁾	18	yellow	-	12.00	3.00	6.00	0.30	0.15	1.50	AI 1 - 6 YE	3201327	100
	1 ¹⁾	18	yellow	-	14.00	3.00	8.00	0.30	0.15	1.50	AI 1 - 8 YE	3201097	100
	1.5 ¹⁾	16	red	-	14.00	3.40	8.00	0.30	0.15	1.80	AI 1,5- 8 RD	3201136	100
	1.5 ¹⁾	16	red	-	14.00	3.40	8.00	0.30	0.15	1.80	AI 1,5- 8 RD-1000	3202928	1000
	1.5 ¹⁾	16	red	-	24.00	3.40	18.00	0.30	0.15	1.80	AI 1,5-18 RD	3241125	500
	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30	AI 2,5- 8 BU	3200522	100
	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30	AI 2,5- 8 BU -1000	3200920	1000
	2.5	14	blue	-	18.00	4.20	12.00	0.30	0.15	2.30	AI 2,5-12 BU	3200962	100
	2.5	14	blue	-	24.00	4.20	18.00	0.30	0.15	2.30	AI 2,5-18 BU	3200580	100
	4	12	gray	-	17.00	4.80	10.00	0.30	0.20	2.80	AI 4 -10 GY	3200535	100
	4	12	gray	-	20.00	4.80	12.00	0.30	0.20	2.80	AI 4 -12 GY	3200959	100
	4	12	gray	-	26.00	4.80	18.00	0.30	0.20	2.80	AI 4 -18 GY	3200593	100
	6 ¹⁾	10	black	-	20.00	6.20	12.00	0.30	0.20	3.50	AI 6 -12 BK	3201107	100
	6 ¹⁾	10	black	-	20.00	6.20	12.00	0.30	0.20	3.50	AI 6 -12 BK -1000	1004301	1000
	10 ¹⁾	8	ivory	-	22.00	7.50	12.00	0.30	0.20	4.60	AI 10 -12 IV	3201068	100
	16 ¹⁾	6	green	-	24.00	8.80	12.00	0.40	0.20	5.80	AI 16 -12 GN	3201152	100
	16 ¹⁾	6	green	-	28.00	8.80	18.00	0.40	0.20	5.80	AI 16 -18 GN	3201330	100
	16 ¹⁾	6	white	-	24.00	8.80	12.00	0.40	0.20	5.80	AI 16 -12 WH	3200140	100
	16 ¹⁾	6	white	-	28.00	8.80	18.00	0.40	0.20	5.80	AI 16 -18 WH	3200153	100
	25 ¹⁾	4	brown	-	30.00	11.00	16.00	0.50	0.20	7.30	AI 25 -16 BN	3201084	50
	35 ¹⁾	2	beige	-	30.00	12.50	16.00	0.50	0.20	8.30	AI 35 -16 BE	3201071	50
	50 ¹⁾	1/0	olive	-	36.00	15.00	20.00	0.60	0.35	10.30	AI 50 -20 OL	3201178	50
	50 ¹⁾	1/0	black	-	40.00	15.00	25.00	0.60	0.35	10.30	AI 50-25 BK	3240678	1000
	95 ¹⁾	4	red	-	44.00	18.00	25.00	0.60	0.35	14.70	AI 95 -25 RD	3201853	25
	120 ¹⁾	5	blue	-	48.00	21.00	27.00	0.70	0.45	16.70	AI120 -27 BU	3201822	25

Hand tools

Ferrules for special applications

- These ferrules provide a practical way of crimping conductors with increased insulation
- This type of ferrule is used with AWG cables in particular. The insulating collar has an enlarged diameter
- Color code in accordance with DIN 46228-4 and UL 486F
- CSA-certified



Notes:

Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.



Conductor cross sections from 0.5 to 1.5 mm²



General data

Material / coating
Plastic sleeve material
Long/short-term temperature

Technical data

CU-DHP / tin-plated (galvanic)
Polypropylene / free from silicone and halogen
105°C (-40°C no load / 0°C dynamic load) / 120°C

Ordering data

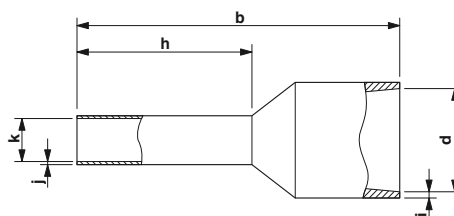
Description	Cross section		Color
	[mm²]	AWG	
Ferrules , with enlarged plastic sleeve, color code in accordance with DIN 46228-4 and UL 486F, CSA-certified			
	0.5	20	white
	0.5	20	white
	0.75	18	gray
	0.75	18	gray
	0.75	18	gray
	1	18	red
	1	18	red
	1.5	16	black
	1.5	16	black

Dimensions [mm]							
a	b	d	h	i	j	k	
-	13.50	3.00	8.00	0.25	0.15	1.10	
-	15.50	3.00	10.00	0.25	0.15	1.10	
-	14.00	3.40	8.00	0.25	0.15	1.30	
-	16.00	3.40	10.00	0.25	0.15	1.30	
-	16.00	3.40	10.00	0.25	0.15	1.30	
-	14.00	3.40	8.00	0.30	0.15	1.50	
-	16.00	3.40	10.00	0.30	0.15	1.50	
-	14.00	3.70	8.00	0.30	0.15	1.80	
-	16.00	3.70	10.00	0.30	0.15	1.80	

Type	Order No.	Pcs./Pkt.
AI 0,5 - 8 WH-GB	1208966	500
AI 0,5-10 WH-GB	3203150	100
AI 0,75- 8 GY-GB	1208979	500
AI 0,75-10 GY-GB	3203163	100
AI 0,75-10 GY-GB-1000	3203299	1000
AI 1 - 8 RD-GB	1208982	500
AI 1 -10 RD-GB-1000	1208869	1000
AI 1,5 - 8 BK-GB-1000	3202892	1000
AI 1,5 -10 BK-GB-1000	1208872	1000

Ferrules for special applications

- Suitable for conductors with thicker insulation, such as short-circuit-proof conductors
- Color code in accordance with DIN 46228-4 and UL 486F
- CSA-certified



Notes:

Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.



Conductor cross sections
from 1.5 to 16 mm²



General data

Material / coating
Plastic sleeve material
Long/short-term temperature

Technical data

CU-DHP / tin-plated (galvanic)
Polypropylene / free from silicone and halogen
105°C (-40°C no load / 0°C dynamic load) / 120°C

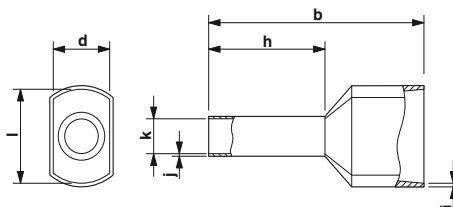
Ordering data

Description	Cross section		Color	Dimensions [mm]							Type	Order No.	Pcs./Pkt.
	[mm²]	AWG		a	b	d	h	i	j	k			
Ferrules , with significantly enlarged plastic sleeve, color code in accordance with DIN 46228-4 and UL 486F, CSA-certified													
	1.5	16	black	-	17.50	7.00	8.00	0.30	0.15	1.80	AI-XL 1,5- 8 BK	3201916	100
	1.5	16	black	-	19.50	7.00	10.00	0.30	0.15	1.80	AI-XL 1,5-10 BK	3201974	100
	2.5	14	blue	-	17.50	7.90	8.00	0.30	0.15	2.30	AI-XL 2,5- 8 BU	3201929	100
	2.5	14	blue	-	21.50	7.90	12.00	0.30	0.15	2.30	AI-XL 2,5-12 BU	3201987	100
	4	12	gray	-	19.50	7.90	10.00	0.30	0.20	2.90	AI-XL 4 -10 GY	3201932	100
	6	10	yellow	-	23.00	8.70	12.00	0.30	0.20	3.60	AI-XL 6 -12 YE	3201945	100
	10	8	red	-	24.00	10.20	12.00	0.30	0.20	4.60	AI-XL 10 -12 RD	3201958	100
	16	6	blue	-	25.50	12.50	12.00	0.40	0.20	6.00	AI-XL 16 -12 BU	3201961	100

Hand tools

Ferrules for special applications

- The TWIN ferrules provide a practical way of crimping two conductors in one ferrule
- Chain bridges can be easily implemented using these special ferrules
- Different versions of the individual TWIN ferrules can be selected for specific applications
- These ferrules correspond to the requirements of UL 486F
- UL and CSA-certified



Notes:

1) These color and/or length variants of ferrules are currently not included in UL 486F and are therefore not UL-certified. As of 11/2018. Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.



Conductor cross sections from 2 x 0.5 to 2 x 16 mm²



General data

Material / coating
Plastic sleeve material
Long/short-term temperature

Technical data

CU-DHP / tin-plated (galvanic)
Polypropylene / free from silicone and halogen
105°C (-40°C no load / 0°C dynamic load) / 120°C

Ordering data

Description	Cross section [mm ²] AWG	Color

Ferrules, with TWIN plastic sleeve, color code in accordance with DIN 46228-4 and UL 486F, UL and CSA-certified

2 x 0.5	2 x 20	white
2 x 0.5 ¹⁾	2 x 20	white
2 x 0.75	2 x 18	gray
2 x 0.75	2 x 18	gray
2 x 1	2 x 18	red
2 x 1	2 x 18	red
2 x 1	2 x 18	red
2 x 1.5	2 x 16	black
2 x 1.5 ¹⁾	2 x 16	black
2 x 1.5	2 x 16	black
2 x 2.5	2 x 14	blue
2 x 2.5	2 x 14	blue
2 x 2.5 ¹⁾	2 x 14	blue
2 x 4	2 x 12	gray
2 x 6	2 x 10	yellow
2 x 10	2 x 8	red
2 x 16 ¹⁾	2 x 6	blue

Ferrules, with TWIN plastic sleeve, color code in accordance with DIN 46228-4 and UL 486F, UL and CSA-certified

2 x 0.5	2 x 20	white
2 x 0.5 ¹⁾	2 x 20	white
2 x 0.75 ¹⁾	2 x 18	blue
2 x 1	2 x 18	red
2 x 1	2 x 18	red
2 x 1	2 x 18	red
2 x 1.5	2 x 16	black
2 x 1.5 ¹⁾	2 x 16	black
2 x 1.5	2 x 16	black
2 x 2.5 ¹⁾	2 x 14	gray
2 x 4 ¹⁾	2 x 12	orange
2 x 6 ¹⁾	2 x 10	green
2 x 10 ¹⁾	2 x 8	brown
2 x 16 ¹⁾	2 x 6	white

Dimensions [mm]							
b	d	h	i	j	k	l	

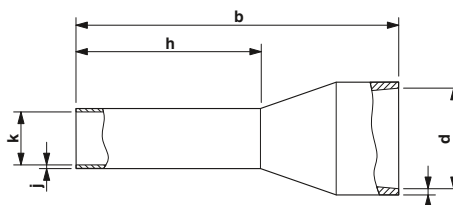
15.00	2.50	8.00	0.25	0.15	1.50	-	
17.00	2.50	10.00	0.25	0.15	1.50	-	
15.00	2.80	8.00	0.25	0.15	1.80	-	
17.00	2.80	10.00	0.25	0.15	1.80	-	
15.00	3.40	8.00	0.30	0.15	2.05	-	
17.00	3.40	10.00	0.30	0.15	2.05	-	
19.00	3.40	12.00	0.30	0.15	2.05	-	
16.00	3.60	8.00	0.30	0.15	2.30	-	
18.00	3.60	10.00	0.30	0.15	2.30	-	
20.00	3.60	12.00	0.30	0.15	2.30	-	
18.50	4.20	10.00	0.30	0.20	2.90	-	
21.50	4.20	13.00	0.30	0.20	2.90	-	
24.50	4.20	16.00	0.30	0.20	2.90	-	
23.00	4.90	12.00	0.30	0.20	3.80	-	
25.00	5.90	14.00	0.40	0.20	4.90	-	
26.00	7.20	14.00	0.40	0.20	6.50	-	
31.00	8.80	16.00	0.50	0.20	8.50	-	

15.00	2.50	8.00	0.25	0.15	1.50	-	
17.00	2.50	10.00	0.25	0.15	1.50	-	
15.00	2.80	8.00	0.25	0.15	1.80	-	
15.00	3.40	8.00	0.30	0.15	2.05	-	
17.00	3.40	10.00	0.30	0.15	2.05	-	
19.00	3.40	12.00	0.30	0.15	2.05	-	
16.00	3.60	8.00	0.30	0.15	2.30	-	
18.00	3.60	10.00	0.30	0.15	2.30	-	
20.00	3.60	12.00	0.30	0.15	2.30	-	
18.50	4.20	10.00	0.30	0.20	2.90	-	
23.00	4.90	12.00	0.30	0.20	3.80	-	
25.00	5.90	14.00	0.40	0.20	4.90	-	
26.00	7.20	14.00	0.40	0.20	6.50	-	
31.00	8.80	16.00	0.50	0.20	8.50	-	

Type	Order No.	Pcs./Pkt.
AI-TWIN 2X 0,5 - 8 WH	3200933	100
AI-TWIN 2X 0,5-10 WH	3203309	100
AI-TWIN 2X 0,75- 8 GY	3200807	100
AI-TWIN 2X 0,75-10 GY	3200975	100
AI-TWIN 2X 1 - 8 RD	3200810	100
AI-TWIN 2X 1 -10 RD	3200988	100
AI-TWIN 2X1-12 RD	3240679	100
AI-TWIN 2X 1,5 - 8 BK	3200823	100
AI-TWIN 2X 1,5 -10 BK	3201534	100
AI-TWIN 2X 1,5 -12 BK	3200991	100
AI-TWIN 2X 2,5 -10 BU	3200836	100
AI-TWIN 2X 2,5 -13 BU	3200878	100
AI-TWIN 2X 2,5 -16 BU	1200281	100
AI-TWIN 2X 4 -12 GY	3201000	100
AI-TWIN 2X 6 -14 YE	3201013	100
AI-TWIN 2X10 -14 RD	3201026	100
AI-TWIN 2X16 -16 BU	3202847	50
AI-TWIN 2X 0,5 - 8 WH	3200933	100
AI-TWIN 2X 0,5-10 WH	3203309	100
AI-TWIN 2X 0,75- 8 BU	3240668	100
AI-TWIN 2X 1 - 8 RD	3200810	100
AI-TWIN 2X 1 -10 RD	3200988	100
AI-TWIN 2X1-12 RD	3240679	100
AI-TWIN 2X 1,5 - 8 BK	3200823	100
AI-TWIN 2X 1,5 -10 BK	3201534	100
AI-TWIN 2X 1,5 -12 BK	3200991	100
AI-TWIN 2X 2,5 -10 GY	3240669	100
AI-TWIN 2X 4 -12 OG	1213204	100
AI-TWIN 2X 6 -14 GN	1213205	100
AI-TWIN 2X10 -14 BN	1213206	100
AI-TWIN 2X16 -16 WH	1213207	50

Ferrules with plastic sleeve, taped, supplied on large reels

- Ferrules in tape format for automatic processing
- The ferrules are supplied on large reels, each containing a quantity of up to 3000
- The ferrules correspond to the requirements of DIN 46228-4 and UL 486F
- UL and CSA-certified



Notes:

¹⁾ These color and/or length variants of ferrules are currently not included in DIN 46228-4 and UL 486F, and are therefore not UL-certified. As of 11/2018. Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.



Conductor cross section
of 0.5 ... 2.5 mm²



General data

Material / coating
Plastic sleeve material
Long/short-term temperature

Technical data

CU-DHP / tin-plated (galvanic)
Polypropylene / free from silicone and halogen
105°C (-40°C no load / 0°C dynamic load) / 120°C

Ordering data

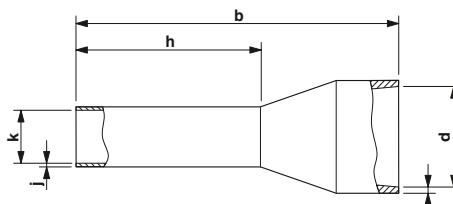
Description	Cross section		Color
	[mm ²]	AWG	
Taped ferrules , with plastic sleeve, large reels for automatic processing, color code in acc. with DIN 46228-4 and UL 486F, UL and CSA certified			
	0.5	20	white
	0.75 ¹⁾	18	white
	0.75	18	gray
	1	18	red
	1.5	16	black
	2.5	14	blue

Dimensions [mm]							
a	b	d	h	i	j	k	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	14.00	4.20	8.00	0.30	0.15	2.30	

Type	Order No.	Pcs./Pkt.
AI 0,5-8 WH-B 3000	3240663	3000
AI 0,75-8 WH-B 3000	3240677	3000
AI 0,75-8 GY-B 3000	3240664	3000
AI 1-8 RD-B 3000	3240665	3000
AI 1,5-8 BK-B 2500	3240666	2500
AI 2,5-8 BU-B 1500	3240667	1500

Ferrules with plastic collar in strip form

- Suitable for processing with the CRIMPFOX 4 IN 1
- The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
- The ferrules correspond to the requirements of DIN 46228-4 and UL 486F
- UL and CSA-certified



Notes:

¹⁾ These color and/or length variants of ferrules are currently not included in DIN 46228-4 and UL 486F, and are therefore not UL-certified. As of 11/2018. Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.



Conductor cross section
of 0.5 ... 2.5 mm²



General data

Material / coating
Plastic sleeve material
Long/short-term temperature

Technical data

CU-DHP / tin-plated (galvanic)
Polypropylene / free from silicone and halogen
105°C (-40°C no load / 0°C dynamic load) / 120°C

Ordering data

Description	Cross section		Color
	[mm ²]	AWG	
Taped ferrules , ferrule length: 8 mm, in accordance with DIN 46228-4 and UL 486F, 10 strips with 50(40) ferrules per strip, UL and CSA-certified			
0.5 mm ²	0.5	20	white
0.75 mm ²	0.75 ¹⁾	18	blue
0.75 mm ²	0.75	18	gray
1.0 mm ²	1	18	red
1.5 mm ²	1.5	16	black
2.5 mm ²	2.5	14	blue
2.5 mm ²	2.5 ¹⁾	14	gray

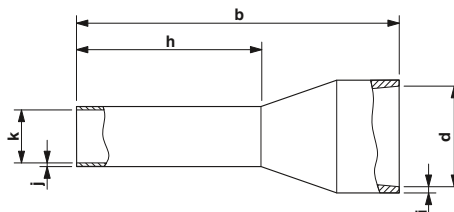
Dimensions [mm]							
a	b	d	h	i	j	k	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	14.00	4.20	8.00	0.30	0.15	2.30	
-	14.00	4.20	8.00	0.30	0.15	2.30	

Type	Order No.	Pcs./Pkt.
AI 0,5-8 WH S1	1200104	500
AI 0,75-8 BU S1	1200163	500
AI 0,75-8 GY S1	1200105	500
AI 1,0-8 RD S1	1200106	500
AI 1,5-8 BK S1	1200107	500
AI 2,5-8 BU S1	1200108	400
AI 2,5-8 GY S1	1200164	400

Hand tools

Ferrules with plastic collar
in strip form

- Suitable for processing with the CRIMPHANDY
- The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
- The ferrules correspond to the requirements of DIN 46228-4 and UL 486F
- UL and CSA-certified



Notes:

¹⁾ These color and/or length variants of ferrules are currently not included in DIN 46228-4 and UL 486F, and are therefore not UL-certified. As of 11/2018. Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.



Conductor cross section 0.5 ... 1.5 mm²,
with function end



General data

Material / coating
Plastic sleeve material
Long/short-term temperature

Technical data

CU-DHP / tin-plated (galvanic)
Polypropylene / free from silicone and halogen
105°C (-40°C no load / 0°C dynamic load) / 120°C

Ordering data

Description	Cross section		Color
	[mm ²]	AWG	
Taped ferrules , with function end, 8 mm, with plastic sleeve, in accordance with DIN 46228-4 and UL 486F, UL and CSA-certified, 50 pieces per strip, 20 strips per unit pack			
in accordance with DIN 46228-4, UL 486F, and NFC 63-023	0.5	20	white
in accordance with DIN 46228-4 and UL 486F	0.75	18	gray
in accordance with DIN 46228-4, UL 486F, and NFC 63-023	1	18	red
in accordance with DIN 46228-4, UL 486F, and NFC 63-023	1.5	16	black
Special color ¹⁾	0.5	20	orange
in accordance with NFC 63-023 ¹⁾	0.75	18	blue
Special color ¹⁾	0.75	18	white
Special color ¹⁾	1	18	yellow
Special color ¹⁾	1.5	16	red

Dimensions [mm]							
a	b	d	h	i	j	k	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	14.00	3.40	8.00	0.30	0.15	1.80	

Type	Order No.	Pcs./Pkt.
AI 0,5-8 WH-S	1212521	1000
AI 0,75- 8 GY-S	1212522	1000
AI 1,0-8 RD-S	1212523	1000
AI 1,5-8 BK-S	1212524	1000
AI 0,5-8 OG-S	1212784	1000
AI 0,75- 8 BU-S	1212785	1000
AI 0,75- 8 WH-S	1212783	1000
AI 1,0-8 YE-S	1212782	1000
AI 1,5-8 RD-S	1212781	1000

Assortment boxes containing ferrules

- Color coding and the transparent cover facilitate fast access to the required ferrules
- The practical assortment boxes are designed to keep your workshop tidy
- With the integrated Euro hole, they are affixed to perforated plate panels in a space-saving way



Assortment box, equipped



Tool and ferrule set

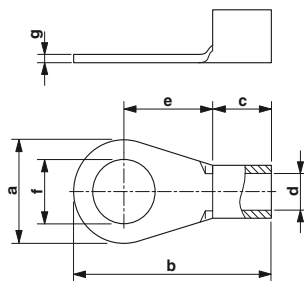


Description	Ordering data			Ordering data		
	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Assortment box , equipped with ferrules in accordance with DIN 46228-4, CSA-certified 500 pcs. each of AI 0,5-8 WH, AI 2,5-8 BU, 100 pcs. each of AI 0,75-8 GY, AI 1-8 RD, AI 1,5-8 BK	AI SORTI BOX RD	3202960	1			
Assortment box , equipped with ferrules in accordance with DIN 46228-4, CSA-certified 50 pcs. of AI 4-10 GY, 20 pcs. each of AI 6-12 YE, AI 10-12 RD, 10 pcs. of AI 16-12 BU	AI SORTI BOX ANT	3202973	1			
Assortment box , supplied with TWIN ferrules in accordance with DIN 46228-4, CSA-certified 50 pcs. each of AI-TWIN 2x0,5-8 WH, AI-TWIN 2x0,75-8 GY, AI-TWIN 2x1-8 RD, AI-TWIN 2x1,5-8 BK 25 pcs. of AI-TWIN 2x2,5-10 BU	AI-TWIN SORTI BOX BU	3202986	1			
Assortment box , equipped with TWIN ferrules in accordance with DIN 46228-4, CSA-certified 20 pcs. of AI-TWIN 2x4-12 GY, 10 pcs. each of AI-TWIN 2x6-14 YE, AI-TWIN 2x10-14 RD	AI-TWIN SORTI BOX GY	3202999	1			
Assortment box , empty, with five compartments	AI SORTI BOX-E LGY	3203008	10			
Assortment box , made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 500 pieces each of AI 0,25-6 YE, AI 0,34-6 TQ, AI 0,5-8 WH, AI 0,75-8 GY, AI 1-8 RD, AI 1,5-8 BK, 300 pieces of AI 2,5-8 BU, 200 pieces of AI 4-10 GY, 100 pieces of AI 6-12 YE as well as stripping tool for wires and conductors of up to 6 mm ² Crimp pliers for ferrules in accordance with DIN 46228, Part 1+4, 0,5 - 6 mm ² , front insertion, trapezoidal crimp				CRIMPSET 6	1202072	1
Assortment box , made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 300 pieces of AI 10-12 RD, 200 pieces of AI 16-12 BU, 100 pieces of AI 25-16 YE as well as stripping tool, for stripping wires of 4.5 - 40 mm Crimp pliers for ferrules in accordance with DIN 46228, Part 1+4, 10 - 25 mm ² , lateral insertion, WM crimp				CRIMPSET 25	1202580	1
Assortment box , metal, empty				CRIMPSET 6/25 LEER	1204041	1

Hand tools

Ring cable lugs, uninsulated

- The ring cable lugs without plastic sleeve are made from high-quality tin-plated electrolytic copper for maximum protection against corrosion
- The hard-soldered crimp zone enables maximum conductor pull-out values and optimum contact properties
- For optimum crimping, the CRIMPFOX-RC ... tools from our CRIMPFOX crimping pliers range are available to you



Conductor cross sections
from 0.5 to 240 mm²

General data

Material / coating
Temperature range

[°C]

ERC

Technical data

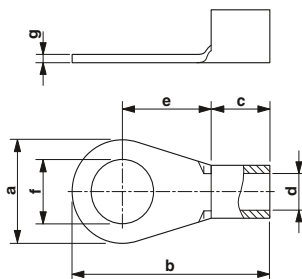
Copper / tin-plated
... 110

Ordering data

Description	Cross section		Color	Dimensions [mm]						
	[mm²]	AWG		a	b	c	d	e	f	g
Ring cable lug, uninsulated, in accordance with DIN 46234										
	0.5 - 1	20 - 18	silver	6.00	14.00	5.00	1.60	6.00	2.80	0.80
	0.5 - 1	20 - 18	silver	6.00	14.00	5.00	1.60	6.00	3.20	0.80
	0.5 - 1	20 - 18	silver	6.00	14.00	5.00	1.60	6.00	3.70	0.80
	0.5 - 1	20 - 18	silver	8.00	16.00	5.00	1.60	7.00	4.30	0.80
	0.5 - 1	20 - 18	silver	10.00	18.00	5.00	1.60	8.00	5.30	0.80
	0.5 - 1	20 - 18	silver	10.00	18.00	5.00	1.60	8.00	6.50	0.80
	0.5 - 1	20 - 18	silver	11.60	22.00	5.00	1.60	12.00	8.40	0.80
	1 - 2.5	18 - 14	silver	6.00	14.00	5.00	2.30	6.00	3.20	0.80
	1 - 2.5	18 - 14	silver	6.00	14.00	5.00	2.30	6.00	3.70	0.80
	1 - 2.5	18 - 14	silver	8.00	16.00	5.00	2.30	7.00	4.30	0.80
	1 - 2.5	18 - 14	silver	10.00	19.00	5.00	2.30	9.00	5.30	0.80
	1 - 2.5	18 - 14	silver	11.00	21.50	5.00	2.30	11.00	6.50	0.80
	1 - 2.5	18 - 14	silver	14.00	24.00	5.00	2.30	12.00	8.40	0.80
	1 - 2.5	18 - 14	silver	14.00	25.40	5.00	2.30	12.00	10.50	0.80
	2.6 - 6	12 - 10	silver	8.00	17.50	6.00	3.60	8.00	4.30	1.00
	2.6 - 6	12 - 10	silver	10.00	20.00	6.00	3.60	9.00	5.30	1.00
	2.6 - 6	12 - 10	silver	11.00	22.00	6.00	3.60	10.00	6.50	1.00
	2.6 - 6	12 - 10	silver	14.00	26.00	6.00	3.60	13.00	8.40	1.00
	2.6 - 6	12 - 10	silver	18.00	30.00	6.00	3.60	15.00	10.50	1.00
	2.6 - 6	12 - 10	silver	18.00	35.50	6.00	3.60	15.00	13.00	1.00
	- 10	- 8	silver	10.00	21.00	8.00	4.50	8.00	5.30	1.10
	- 10	- 8	silver	11.00	23.00	8.00	4.50	9.00	6.50	1.10
	- 10	- 8	silver	14.00	27.00	8.00	4.50	12.00	8.40	1.10
	- 10	- 8	silver	18.00	30.00	8.00	4.50	13.00	10.50	1.10
	- 10	- 8	silver	22.00	34.00	8.00	4.50	15.00	13.00	1.10
	- 16	- 6	silver	11.00	26.00	10.00	5.80	10.00	5.30	1.10
	- 16	- 6	silver	11.00	26.00	10.00	5.80	10.00	6.50	1.20
	- 16	- 6	silver	14.00	29.00	10.00	5.80	12.00	8.40	1.20
	- 16	- 6	silver	18.00	33.00	10.00	5.80	14.00	10.50	1.20
	- 16	- 6	silver	22.00	37.00	10.00	5.80	16.00	13.00	1.20
	- 25	- 4	silver	12.00	31.00	11.00	7.50	14.00	5.30	1.50
	- 25	- 4	silver	12.00	31.00	11.00	7.50	14.00	6.50	1.50
	- 25	- 4	silver	16.00	33.00	11.00	7.50	14.00	8.40	1.50
	- 25	- 4	silver	18.00	35.00	11.00	7.50	15.00	10.50	1.50
	- 25	- 4	silver	31.00	42.00	11.00	7.50	20.00	13.00	1.50
	- 25	- 4	silver	35.00	49.00	11.00	7.50	25.00	17.00	1.50
	- 35	- 2	silver	15.00	34.00	12.00	9.00	14.00	6.50	1.60
	- 35	- 2	silver	16.00	34.00	12.00	9.00	14.00	8.40	1.60
	- 35	- 2	silver	18.00	36.00	12.00	9.00	15.00	10.50	1.60
	- 35	- 2	silver	22.00	42.00	12.00	9.00	19.00	13.00	1.60
	- 35	- 2	silver	28.00	50.00	12.00	9.00	24.00	17.00	1.60
	- 50	- 1/0	silver	18.00	43.00	16.00	11.00	18.00	6.50	1.80
	- 50	- 1/0	silver	18.00	43.00	16.00	11.00	18.00	8.40	1.80
	- 50	- 1/0	silver	18.00	43.00	16.00	11.00	18.00	10.50	1.80
	- 50	- 1/0	silver	22.00	47.00	16.00	11.00	20.00	13.00	1.80
	- 50	- 1/0	silver	28.00	54.00	16.00	11.00	24.00	17.00	1.80
	- 70	- 2/0	silver	22.00	49.00	18.00	13.00	20.00	6.50	2.00
	- 70	- 2/0	silver	22.00	49.00	18.00	13.00	20.00	8.40	2.00
	- 70	- 2/0	silver	22.00	49.00	18.00	13.00	20.00	10.50	2.00
	- 70	- 2/0	silver	22.00	49.00	18.00	13.00	20.00	13.00	2.00
	- 70	- 2/0	silver	28.00	56.00	18.00	13.00	24.00	17.00	2.00

Type	Order No.	Pcs./Pkt.
C-RC 1/M2,5 DIN	3240069	100
C-RC 1/M3 DIN	3240070	100
C-RC 1/M3,5 DIN	3240071	100
C-RC 1/M4 DIN	3240072	100
C-RC 1/M5 DIN	3240073	100
C-RC 1/M6 DIN	3240074	100
C-RC 1/M8 DIN	3240075	100
C-RC 2,5/M3 DIN	3240076	100
C-RC 2,5/M3,5 DIN	3240077	100
C-RC 2,5/M4 DIN	3240078	100
C-RC 2,5/M5 DIN	3240079	100
C-RC 2,5/M6 DIN	3240080	100
C-RC 2,5/M8 DIN	3240081	100
C-RC 2,5/M10 DIN	3240082	100
C-RC 6/M4 DIN	3240083	50
C-RC 6/M5 DIN	3240084	50
C-RC 6/M6 DIN	3240085	50
C-RC 6/M8 DIN	3240086	50
C-RC 6/M10 DIN	3240087	50
C-RC 6/M12 DIN	3240088	50
C-RC 10/M5 DIN	3240089	100
C-RC 10/M6 DIN	3240090	100
C-RC 10/M8 DIN	3240091	100
C-RC 10/M10 DIN	3240092	100
C-RC 10/M12 DIN	3240093	100
C-RC 16/M5 DIN	3240094	100
C-RC 16/M6 DIN	3240095	100
C-RC 16/M8 DIN	3240096	100
C-RC 16/M10 DIN	3240097	100
C-RC 16/M12 DIN	3240098	100
C-RC 25/M5 DIN	3240099	100
C-RC 25/M6 DIN	3240100	100
C-RC 25/M8 DIN	3240101	100
C-RC 25/M10 DIN	3240102	100
C-RC 25/M12 DIN	3240103	100
C-RC 25/M16 DIN	3240104	100
C-RC 35/M6 DIN	3240105	100
C-RC 35/M8 DIN	3240106	100
C-RC 35/M10 DIN	3240107	100
C-RC 35/M12 DIN	3240108	100
C-RC 35/M16 DIN	3240109	100
C-RC 50/M6 DIN	3240110	100
C-RC 50/M8 DIN	3240111	100
C-RC 50/M10 DIN	3240112	100
C-RC 50/M12 DIN	3240113	100
C-RC 50/M16 DIN	3240114	100
C-RC 70/M6 DIN	3240115	100
C-RC 70/M8 DIN	3240116	100
C-RC 70/M10 DIN	3240117	100
C-RC 70/M12 DIN	3240118	100
C-RC 70/M16 DIN	3240119	100

Ring cable lugs, uninsulated

Conductor cross sections
from 0.5 to 240 mm²

General data

Material / coating

Temperature range

[°C]

Description	Cross section		Color	Dimensions [mm]						
	[mm ²]	AWG		a	b	c	d	e	f	g
	95	3/0	silver	24.00	54.00	20.00	15.00	22.00	8.40	2.50
	95	3/0	silver	24.00	54.00	20.00	15.00	22.00	10.50	2.50
	95	3/0	silver	24.00	54.00	20.00	15.00	22.00	13.00	2.50
	95	3/0	silver	28.00	58.00	20.00	15.00	24.00	17.00	2.50
	120	250	silver	24.00	56.00	22.00	16.50	22.00	8.40	3.00
	120	250	silver	24.00	56.00	22.00	16.50	22.00	10.50	3.00
	120	250	silver	24.00	56.00	22.00	16.50	22.00	13.00	3.00
	150	300	silver	30.00	65.00	24.00	19.00	26.00	10.50	3.20
	150	300	silver	30.00	65.00	24.00	19.00	26.00	13.00	3.20
	150	300	silver	30.00	65.00	24.00	19.00	26.00	17.00	3.20
	185	350	silver	36.00	74.00	28.00	21.00	22.00	10.50	3.50
	185	350	silver	36.00	74.00	28.00	21.00	22.00	13.00	3.50
	185	350	silver	36.00	74.00	28.00	21.00	22.00	17.00	3.50
	240	500	silver	38.00	75.00	32.00	23.50	24.00	10.50	4.00
	240	500	silver	38.00	75.00	32.00	23.50	24.00	13.00	4.00
	240	500	silver	38.00	75.00	32.00	23.50	24.00	17.00	4.00

ERC

Technical data

Copper / tin-plated

... 110

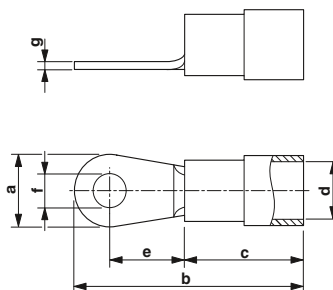
Ordering data

Type	Order No.	Pcs./Pkt.
C-RC 95/M8 DIN	3240120	50
C-RC 95/M10 DIN	3240121	50
C-RC 95/M12 DIN	3240122	50
C-RC 95/M16 DIN	3240123	50
C-RC 120/M8 DIN	3240124	25
C-RC 120/M10 DIN	3240125	25
C-RC 120/M12 DIN	3240126	25
C-RC 150/M10 DIN	3240128	25
C-RC 150/M12 DIN	3240129	25
C-RC 150/M16 DIN	3240130	25
C-RC 185/M10 DIN	3240131	20
C-RC 185/M12 DIN	3240132	20
C-RC 185/M16 DIN	3240133	20
C-RC 240/M10 DIN	3240134	10
C-RC 240/M12 DIN	3240135	10
C-RC 240/M16 DIN	3240136	10

Hand tools

Ring cable lugs, insulated

- The hard-soldered crimping area guarantees the best mechanical properties and permits horizontal or even vertical crimping
- The sleeves taper conically. This enables easy and correct conductor insertion



Conductor cross sections
from 0.5 to 10 mm²

General data

Material / coating
Plastic sleeve material
Temperature range [°C]
Flammability rating in accordance with UL 94

ERC

Technical data

Copper / tin-plated
Polyamide / halogen-free
-20 ... 105
V2

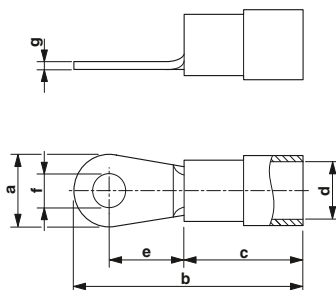
Ordering data

Description	Cross section		Color	Dimensions [mm]						
	[mm ²]	AWG		a	b	c	d	e	f	g
Ring cable lug, insulated, in accordance with UL										
	0.5 - 1.5	20 - 16	red	5.50	17.50	10.50	4.10	4.30	3.20	0.75
	0.5 - 1.5	20 - 16	red	5.50	17.50	10.50	4.10	4.30	3.70	0.75
	0.5 - 1.5	20 - 16	red	8.00	21.70	10.50	4.10	7.30	4.30	0.75
	0.5 - 1.5	20 - 16	red	8.00	21.70	10.50	4.10	7.30	5.30	0.75
	0.5 - 1.5	20 - 16	red	11.60	27.60	10.50	4.10	11.20	6.50	0.75
	1.5 - 2.5	16 - 14	blue	6.60	20.60	11.00	4.50	7.80	3.20	0.80
	1.5 - 2.5	16 - 14	blue	6.60	20.60	11.00	4.50	6.30	3.70	0.80
	1.5 - 2.5	16 - 14	blue	8.50	23.00	11.00	4.50	7.80	4.30	0.80
	1.5 - 2.5	16 - 14	blue	9.50	23.00	11.00	4.50	7.30	5.30	0.80
	1.5 - 2.5	16 - 14	blue	12.00	28.10	11.00	4.50	11.00	6.50	0.80
	1.5 - 2.5	16 - 14	blue	12.00	28.10	11.00	4.50	11.00	8.50	0.80
	4 - 6	12 - 10	yellow	9.50	26.70	14.00	6.60	8.00	4.30	1.00
	4 - 6	12 - 10	yellow	9.50	26.70	14.00	6.60	8.00	5.30	1.00
	4 - 6	12 - 10	yellow	12.00	32.70	14.00	6.60	12.70	6.50	1.00
	4 - 6	12 - 10	yellow	15.00	34.90	14.00	6.60	13.40	8.50	1.00
	4 - 6	12 - 10	yellow	15.00	34.90	14.00	6.60	13.40	10.50	1.00
	- 10	- 8	red	10.00	31.30	16.00	7.50	10.90	5.30	1.10
	- 10	- 8	red	11.00	31.30	16.00	7.50	19.30	6.50	1.10
	- 10	- 8	red	14.00	37.30	16.00	7.50	13.80	8.40	1.10
	- 10	- 8	red	18.00	37.30	16.00	7.50	13.80	10.50	1.10

Type	Order No.	Pcs./Pkt.
C-RCI 1,5/M3	3240016	100
C-RCI 1,5/M3,5	3240017	100
C-RCI 1,5/M4	3240018	100
C-RCI 1,5/M5	3240019	100
C-RCI 1,5/M6	3240020	100
C-RCI 2,5/M3	3240021	100
C-RCI 2,5/M3,5	3240022	100
C-RCI 2,5/M4	3240023	100
C-RCI 2,5/M5	3240024	100
C-RCI 2,5/M6	3240025	50
C-RCI 2,5/M8	3240026	50
C-RCI 6/M4	3240027	50
C-RCI 6/M5	3240028	50
C-RCI 6/M6	3240029	25
C-RCI 6/M8	3240030	25
C-RCI 6/M10	3240031	25
C-RCI 10/M5	3240219	50
C-RCI 10/M6	3240220	50
C-RCI 10/M8	3240221	50
C-RCI 10/M10	3240222	50

Ring cable lugs, insulated with additional crimp zone for conductor insulation

- The C-RCEI series is equipped with an additional crimp zone for conductor insulation
- The conductor and insulation are crimped together, thereby increasing the vibration resistance and tensile strength
- The sleeves taper conically. This enables easy and correct conductor insertion



Conductor cross sections
from 0.5 to 6 mm²

General data

Material / coating	
Plastic sleeve material	
Temperature range	[°C]
Flammability rating in accordance with UL 94	

Technical data

Copper / tin-plated
Polyamide / halogen-free
-20 ... 105
V2

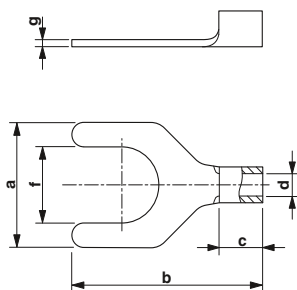
Ordering data

Description	Cross section		Color	Dimensions [mm]							Type	Order No.	Pcs./Pkt.
	[mm²]	AWG		a	b	c	d	e	f	g			
Ring cable lug, insulated, with additional crimp zone for conductor insulation													
	0.5 - 1.5	20 - 16	red	5.50	17.70	11.00	4.10	4.00	3.20	0.75	C-RCEI 1,5/M3	3241201	100
	0.5 - 1.5	20 - 16	red	6.60	20.60	11.00	4.10	6.30	3.70	0.75	C-RCEI 1,5/M3,5	3241202	100
	0.5 - 1.5	20 - 16	red	8.00	22.00	11.00	4.10	7.00	4.30	0.75	C-RCEI 1,5/M4	3241203	100
	0.5 - 1.5	20 - 16	red	8.00	22.00	11.00	4.10	7.00	5.30	0.75	C-RCEI 1,5/M5	3241204	100
	0.5 - 1.5	20 - 16	red	11.60	27.80	11.00	4.10	11.10	6.50	0.75	C-RCEI 1,5/M6	3241205	100
	1.5 - 2.5	16 - 14	blue	6.60	20.50	11.00	4.50	6.30	3.70	0.80	C-RCEI 2,5/M3,5	3241206	100
	1.5 - 2.5	16 - 14	blue	8.50	23.00	11.00	4.50	7.80	4.30	0.80	C-RCEI 2,5/M4	3241207	100
	1.5 - 2.5	16 - 14	blue	9.50	23.00	11.00	4.50	7.30	5.30	0.80	C-RCEI 2,5/M5	3241208	100
	1.5 - 2.5	16 - 14	blue	12.00	28.00	11.00	4.50	11.00	6.50	0.80	C-RCEI 2,5/M6	3241209	100
	1.5 - 2.5	16 - 14	blue	12.00	28.00	11.00	4.50	11.00	8.40	0.80	C-RCEI 2,5/M8	3241210	100
	4 - 6	12 - 10	yellow	9.50	26.00	13.00	6.50	8.30	5.30	1.00	C-RCEI 6/M5	3241211	100
	4 - 6	12 - 10	yellow	12.00	29.50	13.00	6.50	10.50	6.50	1.00	C-RCEI 6/M6	3241212	100
	4 - 6	12 - 10	yellow	15.00	34.20	13.00	6.50	13.70	8.40	1.00	C-RCEI 6/M8	3241213	100
	4 - 6	12 - 10	yellow	15.00	34.20	13.00	6.50	13.70	10.50	1.00	C-RCEI 6/M10	3241214	100

Hand tools

Fork-type cable lugs, uninsulated

- The fork-type cable lugs without plastic sleeve feature a hard-soldered neck. In conjunction with the CRIMPFOX-RC ... range of pliers they can be used to achieve maximum conductor pull-out forces
- They consist of high-quality electrolytic copper with galvanic tin plating for maximum corrosion protection



Conductor cross sections
from 0.5 to 6 mm²

General data

Material / coating
Temperature range

[°C]

Description	Cross section		Color
	[mm²]	AWG	
Fork-type cable lug, uninsulated, in accordance with DIN 46234			
	0.5 - 1.5	20 - 16	silver
	0.5 - 1.5	20 - 16	silver
	0.5 - 1.5	20 - 16	silver
	0.5 - 1.5	20 - 16	silver
	0.5 - 1.5	20 - 16	silver
	1.5 - 2.5	16 - 14	silver
	1.5 - 2.5	16 - 14	silver
	1.5 - 2.5	16 - 14	silver
	1.5 - 2.5	16 - 14	silver
	1.5 - 2.5	16 - 14	silver
	1.5 - 2.5	16 - 14	silver
	1.5 - 2.5	16 - 14	silver
	2.6 - 6	12 - 10	silver
	2.6 - 6	12 - 10	silver
	2.6 - 6	12 - 10	silver
	2.6 - 6	12 - 10	silver

Dimensions [mm]						
a	b	c	d	e	f	g
5.70	16.00	4.50	1.90	7.20	3.20	0.75
6.20	16.00	4.50	1.90	7.20	3.70	0.75
7.20	16.00	4.50	1.90	7.20	4.30	0.75
8.00	16.00	4.50	1.90	6.50	5.30	0.75
10.70	17.00	4.50	1.90	8.00	6.40	0.80
5.70	16.00	4.80	2.50	6.50	3.20	0.80
6.20	16.00	4.80	2.50	6.50	3.70	0.80
7.20	16.00	4.80	2.50	6.50	4.30	0.80
8.00	16.00	4.80	2.50	6.50	5.30	0.80
10.70	17.00	4.80	2.50	7.60	6.40	0.80
13.50	22.10	4.80	2.50	7.60	8.40	0.80
8.20	19.50	6.50	3.60	7.50	4.30	1.00
9.00	19.50	6.50	3.60	8.00	5.30	1.00
12.00	23.10	6.50	3.60	9.50	6.40	1.00
13.50	25.00	6.50	3.60	12.00	8.40	1.00

ERC

Technical data

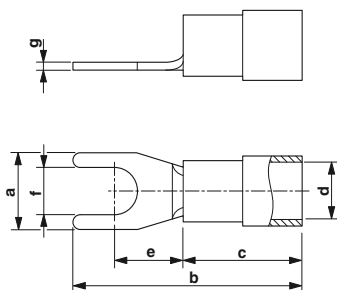
Copper / tin-plated
... 110

Ordering data

Type	Order No.	Pcs./Pkt.
C-FC 1,5/M3	3240137	100
C-FC 1,5/M3,5	3240138	100
C-FC 1,5/M4	3240139	100
C-FC 1,5/M5	3240140	100
C-FC 1,5/M6	3240141	100
C-FC 2,5/M3	3240142	100
C-FC 2,5/M3,5	3240143	100
C-FC 2,5/M4	3240144	100
C-FC 2,5/M5	3240145	100
C-FC 2,5/M6	3240146	100
C-FC 2,5/M8	3240147	100
C-FC 6/M4	3240148	50
C-FC 6/M5	3240149	50
C-FC 6/M6	3240150	50
C-FC 6/M8	3240151	50

Fork-type cable lugs, insulated

- The hard-soldered crimping area guarantees the best mechanical properties and permits horizontal or even vertical crimping
- The insulated versions are halogen-free and feature “EASY ENTRY” technology



Conductor cross sections
from 0.5 to 6 mm²

ERC

General data

Material / coating
Plastic sleeve material
Temperature range [°C]
Flammability rating in accordance with UL 94

Technical data

Copper / tin-plated
Polyamide / halogen-free
-20 ... 105
V2

Ordering data

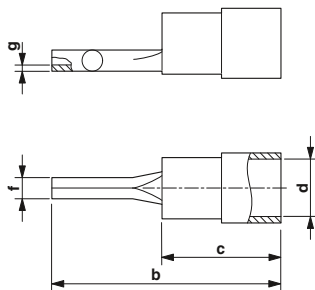
Description	Cross section		Color	Dimensions [mm]							Type	Order No.	Pcs./Pkt.
	[mm²]	AWG		a	b	c	d	e	f	g			
Fork-type cable lug, insulated, in accordance with UL													
	0.5 - 1.5	20 - 16	red	5.70	22.00	10.50	4.10	7.20	3.20	0.75	C-FCI 1,5/M3	3240032	100
	0.5 - 1.5	20 - 16	red	5.70	22.00	10.50	4.10	7.20	3.70	0.75	C-FCI 1,5/M3,5	3240033	100
	0.5 - 1.5	20 - 16	red	7.20	22.00	10.50	4.10	7.20	4.30	0.75	C-FCI 1,5/M4	3240034	100
	0.5 - 1.5	20 - 16	red	8.00	22.00	10.50	4.10	6.50	5.30	0.75	C-FCI 1,5/M5	3240035	100
	0.5 - 1.5	20 - 16	red	10.70	22.00	10.50	4.10	8.00	6.50	0.75	C-FCI 1,5/M6	3240036	100
	1.5 - 2.5	16 - 14	blue	5.70	22.50	11.00	4.50	6.50	3.20	0.80	C-FCI 2,5/M3	3240037	100
	1.5 - 2.5	16 - 14	blue	5.70	22.50	11.00	4.50	6.50	3.70	0.80	C-FCI 2,5/M3,5	3240038	100
	1.5 - 2.5	16 - 14	blue	7.20	22.50	11.00	4.50	6.50	4.30	0.80	C-FCI 2,5/M4	3240039	100
	1.5 - 2.5	16 - 14	blue	8.00	22.50	11.00	4.50	6.50	5.30	0.80	C-FCI 2,5/M5	3240040	50
	1.5 - 2.5	16 - 14	blue	10.70	22.50	11.00	4.50	7.60	6.50	0.80	C-FCI 2,5/M6	3240041	50
	4 - 6	12 - 10	yellow	8.20	26.70	14.00	6.60	7.50	4.30	1.00	C-FCI 6/M4	3240042	50
	4 - 6	12 - 10	yellow	9.00	26.70	14.00	6.60	8.00	5.30	1.00	C-FCI 6/M5	3240043	50
	4 - 6	12 - 10	yellow	12.00	30.30	14.00	6.60	9.90	6.50	1.00	C-FCI 6/M6	3240044	25
	4 - 6	12 - 10	yellow	13.50	32.80	14.00	6.60	11.50	8.50	1.00	C-FCI 6/M8	3240045	25

Hand tools

Pin cable lugs, insulated

The key features of the insulated pin cable lugs with plastic collars are as follows:

- “EASY ENTRY” for easy and reliable conductor entry
- Hard-soldered crimping zone for maximum pull-out forces
- Electrolytic tin plating
- Halogen-free



Conductor cross sections
from 0.5 to 6 mm²

ERC

General data

Material / coating
Plastic sleeve material
Temperature range
Flammability rating in accordance with UL 94

[°C]

Description	Cross section		Color
	[mm ²]	AWG	
Pin cable lug, insulated, in accordance with UL	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue
	4 - 6	12 - 10	yellow

Dimensions [mm]							
a	b	c	d	e	f	g	
-	22.50	10.50	4.10	-	2.00	0.75	
-	23.00	11.00	4.50	-	2.00	0.80	
-	27.50	14.00	6.60	-	2.70	0.80	

Technical data

Copper / tin-plated
Polyamide / halogen-free
-20 ... 105
V2

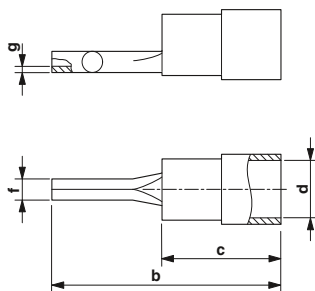
Ordering data

Type	Order No.	Pcs./Pkt.
C-PCI 1,5/2	3240064	100
C-PCI 2,5/2	3240066	100
C-PCI 6/2,7	3240068	50

Pin cable lugs, insulated with additional crimp zone for conductor insulation

The key features of the insulated pin cable lugs with plastic collars are as follows:

- “EASY ENTRY” for easy and reliable conductor entry
- Hard-soldered crimping zone for maximum pull-out forces
- Electrolytic tin plating
- Halogen-free
- The conductor and insulation are crimped together, thereby increasing the vibration resistance and tensile strength



Conductor cross sections
from 0.5 to 6 mm²

ERC

General data

Material / coating
Plastic sleeve material
Temperature range
Flammability rating in accordance with UL 94

[°C]

Description	Cross section		Color
	[mm ²]	AWG	
Pin cable lug, insulated, with additional crimp zone for conductor insulation	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue
	4 - 6	12 - 10	yellow

Dimensions [mm]							
a	b	c	d	e	f	g	
-	23.50	11.00	4.10	-	1.90	0.75	
-	23.50	11.00	4.50	-	1.90	0.80	
-	26.70	13.00	6.50	-	2.80	0.80	

Technical data

Copper / tin-plated
Polyamide / halogen-free
-20 ... 105
V2

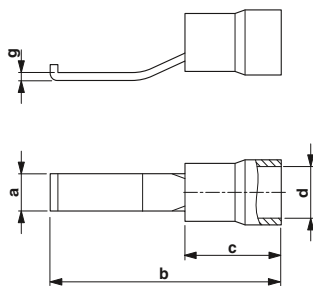
Ordering data

Type	Order No.	Pcs./Pkt.
C-PCEI 1,5/2	3241215	100
C-PCEI 2,5/2	3241216	100
C-PCEI 6/2	3241217	100

Flat pin cable lugs with hooks, insulated

The key features of the flat pin cable lugs with plastic collars are as follows:

- “EASY ENTRY” for easy and reliable conductor entry
- Electrolytic tin plating
- Halogen-free
- For horizontal and vertical crimping with CRIMPFOX-RCI 6



Conductor cross sections
from 0.5 to 6 mm²

EAC

General data

Material / coating	
Plastic sleeve material	
Temperature range	[°C]
Flammability rating in accordance with UL 94	

Description	Cross section		Color	Dimensions [mm]						
	[mm²]	AWG		a	b	c	d	e	f	g
Flat pin cable lug, insulated										
	0.5 - 1.5	20 - 16	red	2.80	28.00	10.50	4.00	-	-	0.80
	0.5 - 1.5	20 - 16	red	4.60	28.00	10.50	4.00	-	-	0.80
	1.5 - 2.5	16 - 14	blue	2.80	28.50	11.00	4.50	-	-	0.80
	1.5 - 2.5	16 - 14	blue	4.60	28.50	11.00	4.50	-	-	0.80
	4 - 6	12 - 10	yellow	2.80	32.00	14.00	6.50	-	-	0.80
	4 - 6	12 - 10	yellow	4.60	32.00	14.00	6.50	-	-	1.00

Technical data

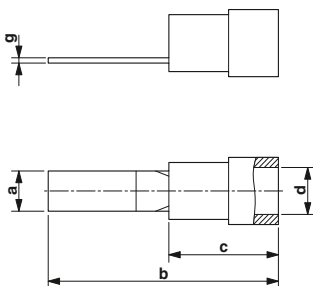
Copper / tin-plated
Polyamide / halogen-free
-20 ... 105
V2

Ordering data

Type	Order No.	Pcs./Pkt.
C-BCI 1,5/2,8	3240015	100
C-BCI 1,5/4,6	3240568	100
C-BCI 2,5/2,8	3240046	100
C-BCI 2,5/4,6	3240569	100
C-BCI 6/2,8	3240047	50
C-BCI 6/4,6	3240570	50

Flat pin cable lugs, straight, insulated

- “EASY ENTRY” for easy and reliable conductor entry
- Hard-soldered crimping zone for maximum conductor pull-out force in connection with CRIMPFOX RCI ... pliers
- Electrogalvanized
- Halogen-free



Conductor cross sections
from 0.5 to 6 mm²

EAC

General data

Material / coating	
Plastic sleeve material	
Temperature range	[°C]
Flammability rating in accordance with UL 94	

Description	Cross section		Color	Dimensions [mm]						
	[mm²]	AWG		a	b	c	d	e	f	g
Flat pin cable lug, insulated, pin dimensions:										
19.5 x 2.8 mm	0.5 - 1.5	20 - 16	red	2.80	19.50	10.50	4.10	-	-	0.75
20 x 2.8 mm	1.5 - 2.5	16 - 14	blue	2.80	20.00	11.00	4.50	-	-	0.80
32 x 4.5 mm	4 - 6	12 - 10	yellow	2.80	24.00	14.00	6.60	-	-	1.00
24 x 2.8 mm	4 - 6	12 - 10	yellow	4.50	32.00	14.00	6.60	-	-	1.00

Technical data

CU / electrogalvanized
Polyamide / halogen-free
-20 ... 105
V2

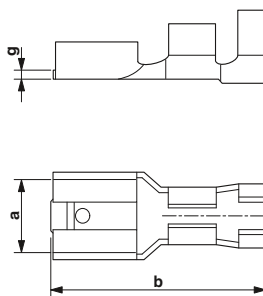
Ordering data

Type	Order No.	Pcs./Pkt.
C-BCSI 1,5/9X2,8	3240531	100
C-BCSI 2,5/9X2,8	3240532	100
C-BCSI 6/10X2,8	3240546	100
C-BCSI 6/18X4,5	3240533	50

Hand tools

Slip-on sleeves and flat connectors, uninsulated

- The uninsulated slip-on sleeves and slip-on blade connectors are made from electrolytically tin-plated brass, thereby offering a high degree of protection against corrosion
- The crimp area has grooves, these improve the electrical and mechanical properties
- Halogen-free



Conductor cross sections from 0.5 to 6 mm²

General data

Material / coating
Temperature range

[°C]

Description	Cross section		Color
	[mm²]	AWG	
Slip-on sleeve , uninsulated, in accordance with DIN 46247			
	0.5 - 1	20 - 18	silver
	0.5 - 1.5	20 - 16	silver
	0.5 - 1.5	20 - 16	silver
	0.5 - 1.5	20 - 16	silver
	1.5 - 2.5	16 - 14	silver
	1.5 - 2.5	16 - 14	silver
	1.5 - 2.5	16 - 14	silver
	4 - 6	12 - 10	silver
Flat connector , uninsulated, in accordance with DIN 46248			
	0.5 - 1.5	20 - 16	silver
	1.5 - 2.5	16 - 14	silver

Insulating ferrule, as touch proofness and insulation for slip-on sleeves

For 2.8 mm slip-on sleeves	transparent
For 4.8 mm slip-on sleeves	transparent
For 6.3 mm slip-on sleeves	transparent

ERC

Technical data

Brass / tin-plated
... 110

Ordering data

Type	Order No.	Pcs./Pkt.
C-SCF 1/2,8X0,8	3240153	100
C-SCF 1,5/4,8X0,5	3240154	100
C-SCF 1,5/4,8X0,8	3240155	100
C-SCF 1,5/6,3X0,8	3240156	100
C-SCF 2,5/4,8X0,5	3240157	100
C-SCF 2,5/4,8X0,8	3240158	100
C-SCF 2,5/6,3X0,8	3240159	100
C-SCF 6/6,3X0,8	3240160	100
C-SCM 1,5/6,3X0,8	3240161	100
C-SCM 2,5/6,3X0,8	3240162	100

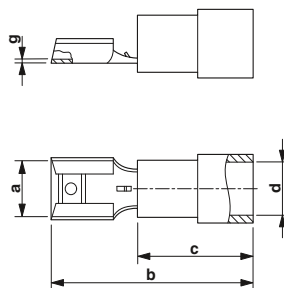
Accessories

PT/FS 2,8	1406700	500
PT/FS 4,8	1670497	25
PT/FS 6,3	0604707	500

Slip-on sleeves and flat connectors, insulated

The key features of the insulated flat connectors and slip-on sleeves with plastic collars are as follows:

- “EASY ENTRY” for easy and reliable conductor entry
- Hard-soldered crimping zone for maximum pull-out forces
- Electrolytic tin plating
- Halogen-free



Conductor cross sections
from 0.5 to 6 mm²

General data

Material / coating	
Plastic sleeve material	
Temperature range	[°C]
Flammability rating in accordance with UL 94	

ERC

Technical data

Brass / tin-plated
Polyamide / halogen-free
-20 ... 105
V2

Ordering data

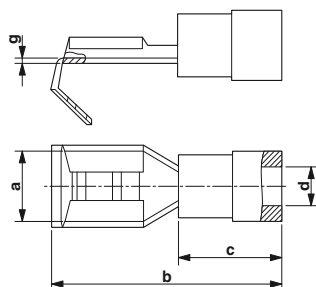
Description	Cross section		Color	Dimensions [mm]							Type	Order No.	Pcs./Pkt.
	[mm²]	AWG		a	b	c	d	e	f	g			
Slip-on sleeve, insulated, in accordance with UL													
0.5 - 1.5	20 - 16	red	2.80	18.50	10.50	4.10	-	-	0.25	C-SCFI 1,5/2,8X0,5	3240048	100	
0.5 - 1.5	20 - 16	red	2.80	18.50	10.50	4.10	-	-	0.25	C-SCFI 1,5/2,8X0,8	3240049	100	
0.5 - 1.5	20 - 16	red	4.80	19.50	10.50	4.10	-	-	0.40	C-SCFI 1,5/4,8X0,5	3240050	100	
0.5 - 1.5	20 - 16	red	4.80	19.50	10.50	4.10	-	-	0.40	C-SCFI 1,5/4,8X0,8	3240051	100	
0.5 - 1.5	20 - 16	red	6.30	21.50	10.50	4.10	-	-	0.40	C-SCFI 1,5/6,3X0,8	3240052	100	
1.5 - 2.5	16 - 14	blue	4.80	20.00	11.00	5.00	-	-	0.40	C-SCFI 2,5/4,8X0,5	3240053	50	
1.5 - 2.5	16 - 14	blue	4.80	20.00	11.00	5.00	-	-	0.40	C-SCFI 2,5/4,8X0,8	3240054	50	
1.5 - 2.5	16 - 14	blue	6.30	22.00	11.00	5.00	-	-	0.40	C-SCFI 2,5/6,3X0,8	3240055	50	
4 - 6	12 - 10	yellow	6.30	25.00	14.00	6.60	-	-	0.40	C-SCFI 6/6,3X0,8	3240056	50	
Slip-on blade connector, insulated, in accordance with UL													
0.5 - 1.5	20 - 16	red	6.30	22.00	10.50	4.10	-	-	0.80	C-SCMI 1,5/6,3X0,8	3240058	100	
1.5 - 2.5	16 - 14	blue	6.30	22.50	11.00	4.50	-	-	0.80	C-SCMI 2,5/6,3X0,8	3240059	50	
4 - 6	12 - 10	yellow	6.30	24.50	14.00	6.60	-	-	0.80	C-SCMI 6/6,3X0,8	3240060	50	

Tools – TOOL fox

Hand tools

Slip-on distributor, insulated

- “EASY ENTRY” for easy and reliable conductor entry
- Electrogalvanized
- Halogen-free



Conductor cross sections
from 0.5 to 2.5 mm²

ERC

General data

Material / coating
Plastic sleeve material
Temperature range [°C]
Flammability rating in accordance with UL 94

Technical data

Brass / electrogalvanized
Polyamide / halogen-free
-20 ... 105
V2

Description	Cross section		Color
	[mm ²]	AWG	
Slip-on distributor, insulated, for 6.3 x 0.8 mm connectors and sleeves	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue

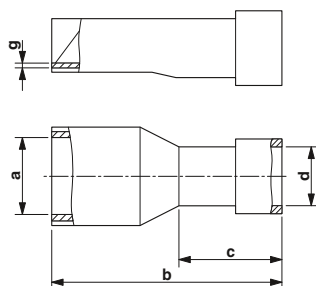
Dimensions [mm]							
a	b	c	d	e	f	g	
6.30	22.50	10.50	41.00	-	-	0.40	
6.30	23.00	11.00	11.00	-	-	0.40	

Ordering data

Type	Order No.	Pcs./Pkt.
C-SCFFI 1,5/6,3X0,8	3240529	50
C-SCFFI 2,5/6,3X0,8	3240530	50

Slip-on sleeves, fully insulated

- “EASY ENTRY” for easy and reliable conductor entry
- Electrogalvanized
- Halogen-free



Conductor cross sections
from 0.5 to 6 mm²

ERC

General data

Material / coating
Plastic sleeve material
Temperature range [°C]

Technical data

Brass / electrogalvanized
Polyamide / halogen-free
-20 ... 105

Ordering data

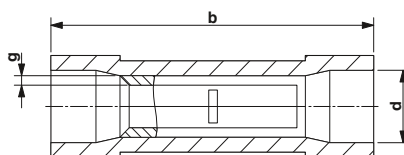
Description	Cross section		Color
	[mm ²]	AWG	
Slip-on sleeve, for connectors:			
2.8 x 0.5 mm	0.5 - 1.5	20 - 16	red
2.8 x 0.8 mm	0.5 - 1.5	20 - 16	red
4.8 x 0.5 mm	0.5 - 1.5	20 - 16	red
4.8 x 0.8 mm	0.5 - 1.5	20 - 16	red
6.3 x 0.8 mm	0.5 - 1.5	20 - 16	red
4.8 x 0.5 mm	1.5 - 2.5	16 - 14	blue
4.8 x 0.8 mm	1.5 - 2.5	16 - 14	blue
6.3 x 0.8 mm	1.5 - 2.5	16 - 14	blue
6.3 x 0.8 mm	4 - 6	12 - 10	yellow

Dimensions [mm]							
a	b	c	d	e	f	g	
2.80	19.00	10.50	4.30	-	-	0.25	
2.80	19.00	10.50	4.30	-	-	0.25	
4.80	19.50	10.50	4.30	-	-	0.40	
4.80	19.50	10.50	4.30	-	-	0.40	
6.30	21.50	10.50	4.30	-	-	0.40	
4.80	20.00	11.00	5.00	-	-	0.40	
4.80	20.00	11.00	5.00	-	-	0.40	
6.30	22.00	11.00	5.00	-	-	0.40	
6.30	26.00	14.00	6.60	-	-	0.40	

Type	Order No.	Pcs./Pkt.
C-SCFFI 1,5/2,8X0,5	3240534	50
C-SCFFI 1,5/2,8X0,8	3240535	50
C-SCFFI 1,5/4,8X0,5	3240536	50
C-SCFFI 1,5/4,8X0,8	3240537	50
C-SCFFI 1,5/6,3X0,8	3240538	50
C-SCFFI 2,5/4,8X0,5	3240539	50
C-SCFFI 2,5/4,8X0,8	3240540	50
C-SCFFI 2,5/6,3X0,8	3240547	25
C-SCFFI 6/6,3X0,8	3240541	25

Butt connector, fully insulated

- Conductor through connection protection
- They are electrolytically galvanized for optimum corrosion protection
- Halogen-free



Conductor cross sections
from 0.5 to 6 mm²

General data

Material / coating
Plastic sleeve material
Temperature range [°C]
Flammability rating in accordance with UL 94

ERC

Technical data

CU / electrogalvanized
Polyamide / halogen-free
-20 ... 105
V2

Ordering data

Description	Cross section		Color
	[mm ²]	AWG	
Butt connector, insulated	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue
	4 - 6	12 - 10	yellow

Dimensions [mm]							
a	b	c	d	e	f	g	
-	25.00	-	4.00	-	-	0.75	
-	25.30	-	4.50	-	-	0.80	
-	27.50	-	6.50	-	-	1.00	

Type	Order No.	Pcs./Pkt.
C-JCI 1,5	3240061	50
C-JCI 2,5	3240062	50
C-JCI 6	3240063	25



Automatic devices – TOOL fox

Phoenix Contact offers a comprehensive range of innovative automatic tools for flexible and fast processing of conductors and cables where various steps can be automated.

A combination of functionality, quality, and short setup times guarantees high levels of flexibility while ensuring excellent results every time. The TOOL fox range comprises devices for cutting, stripping, and crimping conductors and cables.

Product range overview

Automatic devices	504
Automatic cutting device for conductors and cables	506
Stripping machine	507
Pneumatic crimping pliers	508
Portable crimping machine for ferrules, cable lugs, and connectors	510
CRIMPHANDY portable hand-held machine	512
Portable stripping and crimping machine for taped products	514
Ferrules with plastic collar, taped	515
Stripping and crimping machine for bulk goods	516



Automatic stripping



Automatic crimping



**Automatic stripping and crimping
in a single operation**



The CUTFOX 10 automatic cutting device cuts conductors and cables with a cross section of up to 10 mm². Rigid and flexible conductors can be cut to length with millimeter precision. The length and number of cuts are entered via the user-friendly display. The CUTFOX 10 automatically adapts to the diameter when there is a change in material.



The WF 1000 stripping machine enables the automatic stripping of conductors up to 6 mm² or cables with diameters up to 6 mm. Partial removal of the insulation is possible.

The stripping dimensions are set individually via rotary buttons. They are shown on the display.



The Crimphandy is a portable hand-held device for stripping and crimping conductors and ferrules in one step. Automatic monitoring functions ensure permanent, high-quality crimping.



The CF 500 crimping device is characterized by its high press capacity in a compact design as well as its high degree of flexibility. Thanks to the interchangeable dies, it is suitable among other things for insulated cable lugs, tubular and crimping cable lugs, slip-on sleeves, and ferrules up to 50 mm².



The CF 3000-2,5 stripping and crimping device processes ferrules with insulating collars in accordance with DIN 46228-4 and UL 486F. This device allows conductors with a cross section range of 0.25 - 2.5 mm² to be stripped and fitted with ferrules in one operation. The automatic device can be adapted to various cross sections in under a minute.



The CF 1000 stripping and crimping device processes loose ferrules (bulk goods) with insulating collars in accordance with DIN 46228-4 and UL 486F. These automatic devices allow conductors to be stripped and fitted with ferrules in one operation.

Automatic devices

Automatic cutting device
for conductors and cables

- The automatic cutting device can be used to cut conductors, cables, and similar profiles
- It impresses with its easy handling and enables materials to be changed in a matter of seconds
- The desired length and number of cuts can be specified in a user-friendly way via the display
- The drive and measurement rolls automatically adjust to each inserted diameter
- Additional inputs and settings are not necessary
- High length accuracy, thanks to separate measuring and transport roll
- Light weight enables mobile use

Notes:

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



Conductor cross sections
from 0.08 to 10 mm²

ERC

Dimensions	
	[mm]
General data	
Weight	[kg]
Power consumption	[VA]
Cutting efficiency	
Finely stranded	[mm ²]
Solid strand	[mm ²]
Max. throughput	[mm]
Cross section setting	
Maximum number of cuts	[Pcs.]
Length	[mm]
Feed rate	[m/s]
Unit of measurement	
Dialog language	

Technical data		
Width	Length	Height
194	301	228

Weight	11
Power consumption	150
Finely stranded	0.08 - 10
Solid strand	0.08 - 2.5
Max. throughput	8
Cross section setting	automatic
Maximum number of cuts	9999
Length	2 mm ... 999999 mm
Feed rate	0.5
Unit of measurement	mm/inch
Dialog language	German / English / French / Italian

Description
Automatic cutting device , 100 - 240 V/50 - 60 Hz version, for conductors and cables with a diameter of up to 8 mm, rigid (up to 2.5 mm ²) and flexible (up to 10 mm ²)

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX 10	1206829	1

Cable unwinders, for CUTFOX 10, for accommodating and unwinding cable rings and coils in a coordinated way, complete

Turntable, for CUTFOX 10 cable unwinders, for accommodating cable rings and cable coils

Retaining bolts, for CUTFOX 10 rotary table, 4 pcs.

Replacement drive rollers, for CUTFOX 10, 2 pcs.

Replacement blade set, for CUTFOX 10

Drive rollers for CUTFOX 10, 2 pcs., with PU tread, for sensitive cables/conductors

Drive rollers for CUTFOX 10, 2 pcs., with hardened, finely knurled steel tread, for very hard insulation and materials.

Accessories		
CUTFOX 10 C-UN	1208393	1
CUTFOX 10 R-C	1208403	1
CUTFOX 10 BAR	1208416	1
CF-10 WHEEL SET	1207271	1
CF-10 CUTTER KNIFE SET	1207284	1
CF-10 WHEEL SET PU	1200098	1
CF-10 WHEEL SET STEEL	1200099	1



Stripping machine



Notes:

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



Conductor cross sections
from 0.08 to 6 mm²

- This compact stripping machine automatically insulates conductors with a cross section of 0.08 to 6 mm²
- Multi-strand cables with a diameter of up to 6 mm are also stripped
- Partial stripping is supported
- Special insulations such as PTFE and silicon can be stripped, in addition to standard insulations
- The clamping force automatically adjusts itself to the required extraction force, this reduces/prevents pressure points on sensitive insulation
- The stripping dimensions are set individually via rotary buttons. They are shown on the clear display

Dimensions	
	[mm]
General data	
Weight	[kg]
Power consumption	[VA]
Working cycle	[s]
Stripping power	
Finely stranded	[mm ²]
Stripping length	[mm]
Partial stripping length	[mm]
Max. throughput	[mm]

Description
Stripping machine , 230 V/50 Hz version, for conductors and cables, rigid and flexible 0.08 - 6 mm ² (maximum Ø 6 mm), with integrated graphic display
Stripping machine , 120 V/60 Hz version, for conductors and cables, rigid and flexible 0.08 - 6 mm ² (maximum Ø 6 mm), with integrated graphic display

Replacement stripping blade , for WF 1000
Actuation button for WF 1000
Replacement receptacle tray , for WF 1000

ERC

Technical data		
Width	Length	Height
141	363	221

Weight	9.5
Power consumption	160
Working cycle	0.3
Stripping power	
Finely stranded	0.08 - 6
Stripping length	2-20
Partial stripping length	2-20
Max. throughput	6

Ordering data		
Type	Order No.	Pcs./Pkt.
WF 1000	1212149	1
WF 1000 120V	1212258	1

Accessories		
WF 1000/SB	1212279	1
WF 1000/TR	1212416	1
WF 1000/COV	1212417	1

Automatic devices

Pneumatic crimping pliers

- These crimping pliers are pneumatic tools for ferrules in accordance with DIN 46228-1/-4 and UL 486F with a cross section range of 0.25 to 10 mm².
- The perfect alternative to the hand pliers, which protects joints and tendons. They are light, easy to handle, and perfect for control cabinet manufacturing.
- The ZAP...T table models are designed for work at the workbench and are equipped with a foot switch. This keeps both hands free for equipping the conductor.



Conductor cross sections
from 0.25 to 2.5 mm²



Conductor cross sections
from 0.25 to 4 mm²

Dimensions	
	[mm]
General data	
Weight	[kg]
Conductor	[mm ²] / AWG
Pressure range	[bar]
Air consumption per compression	[l]
Crimping	

ERC

Technical data		
Width	Length	Height
44	200	44
0.4		
0.25 - 2.5 / 24 - 14		
4 - 6		
0.2		
Trapezoidal		

Description	
Pneumatic crimping pliers , for ferrules in accordance with DIN 46228-1/-4 and UL 486 F, universal die, lateral and front entry	
Pneumatic crimping pliers , for ferrules in accordance with DIN 46228-1/-4 and UL 486 F, three marked die stations, lateral entry	
Pneumatic crimping pliers , for ferrules in accordance with DIN 46228-1/-4 and UL 486 F, three marked die stations, lateral entry	
Pneumatic crimping pliers , for ferrules in accordance with DIN 46228-1/-4 and UL 486 F, universal die, lateral and front entry, with foot switch and table clamp	
Pneumatic crimping pliers , for ferrules in accordance with DIN 46228-1/-4 and UL 486 F, universal die, lateral and front entry, with foot switch and table clamp	

Ordering data		
Type	Order No.	Pcs./Pkt.
ZAP 25	1203110	1

ERC

Technical data		
Width	Length	Height
44	200	44
0.4		
0.25 - 4 / 24 - 12		
4 - 6		
0.2		
Trapezoidal		

Ordering data		
Type	Order No.	Pcs./Pkt.
ZAP 40	1212630	1



Conductor cross sections
from 4 to 10 mm²



Conductor cross sections
from 0.25 to 2.5 mm²



Conductor cross sections
from 4 to 10 mm²

ERC

Technical data		
Width	Length	Height
44	200	44
0.4		
4 - 10 / 12 - 8		
4 - 6		
0.2		
Trapezoidal		

Ordering data		
Type	Order No.	Pcs./Pkt.
ZAP 100	1203259	1

ERC

Technical data		
Width	Length	Height
140	200	70
1		
0.25 - 2.5 / 24 - 14		
4 - 6		
0.2		
Trapezoidal		

Ordering data		
Type	Order No.	Pcs./Pkt.
ZAP 25 T	1203123	1

ERC

Technical data		
Width	Length	Height
140	200	70
1		
4 - 10 / 12 - 8		
4 - 6		
0.2		
Trapezoidal		

Ordering data		
Type	Order No.	Pcs./Pkt.
ZAP 100 T	1203262	1

Automatic devices

Portable crimping machine for ferrules, cable lugs, and connectors



A key feature of the CF 500 is its easy handling and high degree of flexibility.

A huge range of different contact types can be processed with this crimping device. Positioning aids make it easier to crimp the contacts.

- The crimp inserts can be changed quickly and easily in a matter of seconds
- The carrier handle means that it is also suitable for mobile use
- The crimping procedure is activated via a foot switch. This keeps both hands free for equipping the conductors with the appropriate contacts
- The contact is fixed in place before the crimping procedure via an additional two-stage operating mode. This makes it easier to process crimp contacts and prevents incorrect crimping
- The A ... and AI ... ferrules in accordance with UL 486F are UL-certified when used in combination with the CF 500 and corresponding dies. For further information, visit www.phoenixcontact.com.

Notes:

Further dies and accessories, as well as technical data, can be found at phoenixcontact.net/products

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



Connectors up to 50 mm²

ERC

Dimensions	
	[mm]
General data	
Weight	[kg]
Power consumption	[VA]
Pressure	[kN]
Working cycle	[s]

Technical data		
Width	Length	Height
140	220	320

Description
Crimping device , 230 V/50 Hz version, with quantity counter and foot switch
Crimping device , 120 V/60 Hz version, with quantity counter and foot switch

Ordering data		
Type	Order No.	Pcs./Pkt.
CF 500-230V	1208348	1
CF 500-120V	1208351	1

CF 500 protective cover , without recess (for all dies without assignment)
For ferrules of up to 6 mm ² (AI 6...)
For TWIN ferrules (AI-TWIN...)
For insulated cable lugs (RCI..., TC4)
For uninsulated cable lugs 0.5 - 10 mm ² (RC...FC...)
For uninsulated cable lugs and tubular cable lugs 0.34 - 2.5 mm ² (RC...FC...)
For slip-on sleeves and flat connectors SC 1,5... and SC 6...
For FBS ... plug-in bridges
CF 500 Locator , for slip-on sleeves (SCF...), 0.1 - 1.5 mm ² , width: 2.8 mm, length: 5 mm
For slip-on sleeves (SCF...), width: 4.8 mm, 0.5 - 2.5 mm ²
For slip-on sleeves (SCF...) width: 6.3 mm, 0.5 - 6 mm ²
For slip-on sleeves (SCM...), width: 6.3 mm, 0.5 - 2.5 mm ²
For slip-on sleeves (SCM...), width: 6.3 mm, 1.5 - 6 mm ²

Accessories		
CF 500/COV	1212250	1
CF 500/COV AI 6	1212254	1
CF 500/COV AI TWIN	1212266	1
CF 500/COV RCI	1212255	1
CF 500/COV RC 10	1212252	1
CF 500/COV RCT 4	1212253	1
CF 500/COV SC	1212251	1
CF 500/COV FBS	1212462	1
CF 500/LOC SCF 2,8/1,5	1212249	1
CF 500/LOC SCF 4,8/2,5	1212248	1
CF 500/LOC SCF 6,3/6	1212247	1
CF 500/LOC SCM 6,3/2,5	1212264	1
CF 500/LOC SCM 6,3/6	1212265	1

Dies for CF 500 crimping machine



The large number of crimping dies makes the CF 500 an all-rounder.

- In addition to the standard dies, there are special dies, that, among other things, enable assembly of the FBS ...-4, FBS ...-5, FBS ...-6 or FBS ...-8 plug-in bridges from the CLIPLINE complete system
- If the dies you require are not listed, please contact us



CF 500 die, conductor cross section
0.14 - 6 mm²

ERC

Ordering data

Description	Type	Order No.	Pcs./Pkt.
CF 500 die, For ferrules (A... and Al...) 0.14 - 6 mm ²	CF 500/DIE AI 6	1212238	1
For ferrules (A... and Al...) 10, 16 and 25 mm ²	CF 500/DIE AI 25	1212239	1
For ferrules (A... and Al...) 35 and 50 mm ²	CF 500/DIE AI 50	1212261	1
For TWIN ferrules (AI-TWIN...) 2 x 4, 2 x 6 and 2 x 10 mm ²	CF 500/DIE AI-TWIN 10	1212262	1
for TWIN ferrules (AI-TWIN ...) 2 x 6, 2 x 10 and 2 x 16 mm ²	CF 500/DIE AI-TWIN 16	1200299	1
CF 500 die For insulated cable lugs (RCI... and FCI...) 0.14 - 1,5 mm ²	CF 500/DIE RCI 1,5	1212263	1
For insulated cable lugs (RCI... and FCI...) 0.5 - 6 mm ²	CF 500/DIE RCI 6	1212240	1
For insulated cable lugs (RCI... and FCI...) 0.5 - 6 mm ² (asymmetrical crushing mold)	CF 500/DIE RCI 6-1	1212691	1
For cable lugs (RC... and FC...) 0.5 - 10 mm ²	CF 500/DIE RC 10	1212244	1
For cable lugs (RC... and FC...) 16 mm ²	CF 500/DIE RC 16	1212257	1
CF 500 die For slip-on sleeves and flat connectors (SCF... and SCM...) 0.1 - 1.5 mm ²	CF 500/DIE SC 1,5	1212241	1
For slip-on sleeves and flat connectors (SCF... and SCM...) 0.5 - 6 mm ²	CF 500/DIE SC 6	1212242	1
CF 500 die For turned contacts with pin diameters of 2,5 and 4,0 mm (CK 2,5..., CK 4,0) 0.5 - 4 mm ²	CF 500/DIE TC 4	1212237	1
For turned contacts (CK 4,0) 6 - 10 mm ²	CF 500/DIE TC 10	1212260	1
CF 500 die, for MC 4 solar contacts, 2,5 - 6 mm²			
	CF 500/DIE SR 6-2	1212692	1
CF 500 die, for uninsulated cable lugs (RC..., FC...) and tubular cable lugs 0.34 - 4 mm²			
For tube lugs 0.34 - 2.5 mm ²	CF 500/DIE RCT 4	1212243	1
For standard tubular cable lugs 4 - 10 mm ² , 4 mm ² : outside Ø 5 mm, inside Ø 3 mm, 6 mm ² : outside Ø 6.5 mm, inside Ø 3.5 mm, 10 mm ² : outside Ø 7 mm, inside Ø 4.5 mm	CF 500/DIE RCT 10-1	1212245	1
For tube lugs 4 - 10 mm ² , 4 mm ² : outside Ø 5 mm, inside Ø 3 mm, 6 mm ² : outside Ø 5.5 mm, inside Ø 3.8 mm, 10 mm ² : outside Ø 6 mm, inside Ø 4.5 mm	CF 500/DIE RCT 10-2	1212246	1
For tube lugs 4 - 10 mm ² , 4 mm ² : outside Ø 5 mm, inside Ø 3 mm, 6 mm ² : outside Ø 6 mm, inside Ø 4 mm, 10 mm ² : outside Ø 8 mm, inside Ø 5 mm	CF 500/DIE RCT 10-3	1212256	1
CF 500 die, for assembling FBS ... plug-in bridges			
For FBS ...-4 to -8 plug-in bridges	CF 500/DIE FBS	1212461	1



Automatic devices

CRIMPHANDY, portable crimping device



The CRIMPHANDY represents innovation for switchgear manufacturing. You can strip and crimp your conductors in under two seconds, using this portable hand-held device. That's 75% less time than before.

- The CRIMPHANDY impresses with its easy, effortless handling, which helps protect your joints and tendons
- The compact light weight is ideal for mobile use in the field. Up to 2000 crimping operations can be performed, thanks to the high-performance lithium-ion polymer battery
- Automatic cross section monitoring prevents faulty crimping as a result of incorrect conductor sizes
- The attachable waste receptacle collects the discarded insulation. It thereby helps to ensure a clean working environment
- The cutting unit provides a convenient option of cutting the conductors to length right at the device
- The AI...S ferrules in accordance with UL 486F are UL-certified when used in combination with the CF CRIMPHANDY



Notes:

¹⁾ These color and/or length variants of ferrules are currently not included in DIN 46228-4 and UL 486F, and are therefore not UL-certified. As of 11/2018.
Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.



Conductor cross section 0.5 mm²

ERC

Dimensions	
	[mm]
General data	
Weight	[kg]
Conductor	[mm ²] / AWG
Working cycle	[s]
Insertion length	[mm]
Crimping	

Description

Mobile crimping device, battery-powered, for processing taped ferrules with function end, incl. battery, charger (100 - 240 V), CUTFOX 12 cable cutter, service tool for troubleshooting and one strip of ferrules, packaged in a robust case

suitable for standard PVC conductors (H05VK, H07VK class 5)

Taped ferrules, with function end, 8 mm, with plastic sleeve, in accordance with DIN 46228-4 and UL 486F, UL and CSA-certified, 50 pieces per strip, 20 strips per unit pack

in accordance with DIN 46228-4, UL 486F, and NFC 63-023 Special color¹⁾

in accordance with DIN 46228-4 and UL 486F Special color¹⁾

in accordance with NFC 63-023¹⁾

in accordance with DIN 46228-4, UL 486F, and NFC 63-023 Special color¹⁾

in accordance with DIN 46228-4, UL 486F, and NFC 63-023 Special color¹⁾

Replacement battery, for CF CRIMPHANDY..., Li-ion 7.4 V, 0.68 Ah

Replacement waste guide plate 1, for CF CRIMPHANDY...

Replacement waste guide plate 2,
for CF CRIMPHANDY 0,5
for CF CRIMPHANDY 0,75
for CF CRIMPHANDY 1,0
for CF CRIMPHANDY 1,5

Replacement service tool, for rectifying malfunctions

for CF CRIMPHANDY 0,5
for CF CRIMPHANDY 0,75

for CF CRIMPHANDY 1,0
for CF CRIMPHANDY 1,5

Cutting unit, for CF CRIMPHANDY, for copper wires from 0.5 - 1.5 mm², incl. receptacle tray

Replacement charger, for CF CRIMPHANDY..., 100 - 240 V AC

Technical data		
Width	Length	Height
43	205	70

0.43
- 0.5 / -
< 2
> 32 mm
Square crimp

Ordering data

Type	Order No.	Pcs./Pkt.
CF CRIMPHANDY 0,5	1212463	1

Accessories

AI 0,5-8 WH-S AI 0,5-8 OG-S	1212521 1212784	1000 1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/GP1	1212514	1
CF CRIMPHANDY 0,5/GP2	1212515	1
CF CRIMPHANDY 0,5/SERVICE-TOOL	1212787	1
CF CRIMPHANDY CUTTER	1212520	1
CF CRIMPHANDY/CHARGER	1212519	1

Conductor cross section 0.75 mm²Conductor cross section 1.0 mm²Conductor cross section 1.5 mm²

ERC

Technical data		
Width	Length	Height
43	205	70
0.43 - 0.75 / - < 2 > 32 mm Square crimp		

Ordering data		
Type	Order No.	Pcs./Pkt.
CF CRIMPHANDY 0,75	1212464	1

Accessories		
AI 0,75- 8 GY-S AI 0,75- 8 WH-S AI 0,75- 8 BU-S	1212522 1212783 1212785	1000 1000 1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/GP1	1212514	1
CF CRIMPHANDY 0,75/GP2	1212516	1
CF CRIMPHANDY 0,75/SERVICE-TOOL	1212786	1
CF CRIMPHANDY CUTTER	1212520	1
CF CRIMPHANDY/CHARGER	1212519	1

ERC

Technical data		
Width	Length	Height
43	205	70
0.43 - 1 / - < 2 > 32 mm Square crimp		

Ordering data		
Type	Order No.	Pcs./Pkt.
CF CRIMPHANDY 1,0	1212465	1

Accessories		
AI 1,0-8 RD-S AI 1,0-8 YE-S	1212523 1212782	1000 1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/GP1	1212514	1
CF CRIMPHANDY 1,0/GP2	1212517	1
CF CRIMPHANDY 1,0/SERVICE-TOOL	1212759	1
CF CRIMPHANDY CUTTER	1212520	1
CF CRIMPHANDY/CHARGER	1212519	1

ERC

Technical data		
Width	Length	Height
43	205	70
0.43 - 1.5 / - < 2 > 32 mm Square crimp		

Ordering data		
Type	Order No.	Pcs./Pkt.
CF CRIMPHANDY 1,5	1212466	1

Accessories		
AI 1,5-8 BK-S AI 1,5-8 RD-S	1212524 1212781	1000 1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/GP1	1212514	1
CF CRIMPHANDY 1,5/GP2	1212844	1
CF CRIMPHANDY 1,5/SERVICE-TOOL	1212708	1
CF CRIMPHANDY CUTTER	1212520	1
CF CRIMPHANDY/CHARGER	1212519	1

Automatic devices

Portable automatic stripping and crimping device for taped products



- The compact stripping and crimping device can be used to process taped ferrules with insulating collars in accordance with DIN 46228-4 / UL 486F
- Up to 1000 conductors are processed per hour
- The conductor is stripped in a single operation and is crimped with a ferrule to a high standard of quality
- Particularly suitable for pre-assembling conductors
- Thanks to its compact and lightweight design, it can also be used as a portable solution for transport between different work locations
- The automatic device can be adapted to various cross sections in under a minute
- Color coding in accordance with ferrule standard DIN 46228-4 / UL 486F makes the assignment of modification components really clear
- The AI ...-B ferrules in accordance with UL 486F are UL-certified when used in combination with the CF 3000-2,5. For further information, visit www.phoenixcontact.com



Notes:

¹⁾ Depends on the characteristics of the conductor material and insulation material.

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



Conductor cross sections
from 0.25 to 2.5 mm²

ERC

Dimensions	
	[mm]
General data	
Weight	[kg]
Area of application	
Conductor	[mm ²] / AWG
Power consumption	[VA]
Working cycle	[s]
Insertion length	[mm]
Crimping	

Technical data		
Width	Length	Height
165	320	300

12
0.25 - 2.5 / 24 - 14
80
1.2
> 49 mm
Trapezoidal

Description
Stripping and crimping device, 230 V version, for taped insulated ferrules 0.25 - 2.5 mm ² , sleeve length 8 mm, incl. conversion kits 0.5 - 2.5 mm ² ¹⁾
Stripping and crimping device, 120 V version, for taped insulated ferrules 0.25 - 2.5 mm ² , sleeve length 8 mm, incl. conversion kits 0.5 - 2.5 mm ² ¹⁾

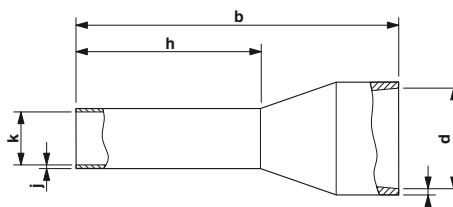
Ordering data		
Type	Order No.	Pcs./Pkt.
CF 3000-2,5	1205477	1
CF 3000-2,5 120V	1205516	1

Extension kit, complete, for CF 3000, for taped insulated ferrules, 0.25/0.34 mm ² , sleeve length 8 mm ¹⁾
Replacement locator, 0.25 mm ² 0.5 mm ² 0.75 mm ² 1.0 mm ² 1.5 mm ² 2.5 mm ²
Replacement blade, 0.25 mm², adjustable 0.25 mm ² , adjustable 0.5 mm ² 0.75 mm ² 1.0 mm ² 1.5 mm ² 2.5 mm ²

Accessories		
CF 3000-TOOLKIT 0,25	1212376	1
CF 3000 LOC 0,25	1212377	1
CF 3000 LOC 0,5	1205639	1
CF 3000 LOC 0,75	1205642	1
CF 3000 LOC 1,0	1205655	1
CF 3000 LOC 1,5	1205668	1
CF 3000 LOC 2,5	1205671	1
CF 3000 AB 0,25	1212380	1
CF 3000 AM 0,5	1205587	1
CF 3000 AM 0,75	1205590	1
CF 3000 AM 1,0	1205600	1
CF 3000 AM 1,5	1205613	1
CF 3000 AM 2,5	1205626	1

Ferrules with plastic sleeve, taped, for the CF 3000-2,5 crimping machine

- The taped ferrules have been developed specifically for the CF 3000-2,5 crimping machine
- UL and CSA-certified
- Available in the main color codes up to 2.5 mm²
- The ferrules correspond to the requirements of DIN 46228-4 and UL 486F
- Can be used to wire all terminal blocks, especially those of the CLIPLINE complete system



Notes:

¹⁾ These color and/or length variants of ferrules are currently not included in DIN 46228-4 and UL 486F, and are therefore not UL-certified. As of 11/2018. Up-to-date information on certification can be found under UL file E488001 at www.UL.com or at phoenixcontact.com.



Conductor cross sections from 0.25 to 8 mm²



General data

Material / coating
Plastic sleeve material
Long/short-term temperature

Technical data

CU-DHP / tin-plated (galvanic)
Polypropylene / free from silicone and halogen
105°C (-40°C no load / 0°C dynamic load) / 120°C

Ordering data

Description	Cross section [mm ²]	AWG	Color

Taped ferrules, 8 mm, with plastic sleeve, UL and CSA-certified, color code in accordance with DIN 46228-4

	0.5	20	white
	0.75	18	gray
	1	18	red
	1.5	16	black
	2.5 ¹⁾	14	blue

Taped ferrules, with plastic sleeve, color code in accordance with NFC 63-023: 1994-02, CSA-certified

	0.75 ¹⁾	18	blue
	0.5	20	white
	1	18	red
	1.5	16	black
	2.5 ¹⁾	14	gray

Taped ferrules, 8 mm, with plastic sleeve, CSA-certified, special color code

	0.25 ¹⁾	24	yellow
	0.25 ¹⁾	24	blue
	0.34 ¹⁾	22	turquoise
	0.5 ¹⁾	20	orange
	0.75 ¹⁾	18	white
	1 ¹⁾	18	yellow
	1.5 ¹⁾	16	red

Dimensions [mm]							
a	b	d	h	i	j	k	

-	14.00	2.50	8.00	0.25	0.15	1.10	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	14.00	4.20	8.00	0.30	0.15	2.30	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	14.00	4.20	8.00	0.30	0.15	2.30	

Type	Order No.	Pcs./Pkt.
AI 0,5 - 8 WH-B	3201369	1000
AI 0,75 - 8 GY-B	3201372	1000
AI 1 - 8 RD-B	3201385	1000
AI 1,5 - 8 BK-B	3201398	1000
AI 2,5 - 8 BU-B	3201408	500
AI 0,75 - 8 BU-B	3201547	1000
AI 0,5 - 8 WH-B	3201369	1000
AI 1 - 8 RD-B	3201385	1000
AI 1,5 - 8 BK-B	3201398	1000
AI 2,5 - 8 GY-B	3201550	500
AI 0,25-8 YE-B	3240251	1000
AI 0,25-8 BU-B	3240250	1000
AI 0,34-8 TQ-B	3240249	1000
AI 0,5 - 8 OG-B	3201563	1000
AI 0,75 - 8 WH-B	3201576	1000
AI 1 - 8 YE-B	3201589	1000
AI 1,5 - 8 RD-B	3201592	1000

Automatic devices

Stripping and crimping device for loose ferrules



The stripping and crimping device can be used to process loose ferrules from 0.25 to 4 mm² with insulating collars in accordance with DIN 46228-4 / UL 486F.

The optimized sensor technology has improved the processing of small cross sections.

- The conductor is stripped and crimped with a ferrule to a high standard of quality in a single step, which enables up to 1000 conductors to be processed per hour
- With the integrated counter, you get an overview of the quantities
- The pull-out forces conform to the requirements of EC/EN 60999, IEC/EN 60947, and UL 486F
- The press unit is switched off at the touch of a button so that the CF 1000 can be used as a stripping machine
- A cross section change can be carried out in just a few steps without any need for tools. The sleeve length can be easily set with a screwdriver. Additional settings are not necessary. You can order additional feeder bowls as accessories for an even faster cross section change
- Robust design, suitable for industrial bulk processing
- High reliability, thanks to maintenance and wear-free components
- The Al ... ferrules in accordance with UL 486F are UL-certified when used in combination with the CF 1000-1,5. For further information, visit www.phoenixcontact.com

Notes:

Accessories and replacement parts for older device versions can be found at phoenixcontact.net/products.

¹⁾ Depends on the characteristics of the conductor material and insulation material.



Conductor cross sections from 0.25 to 4 mm²

ERC

Dimensions	
	[mm]
General data	
Weight	[kg]
Power supply	[V]
Pressure range	[bar]
Air consumption per compression	[l]
Working cycle	[s]
Insertion length	[mm]
Crimping	

Technical data		
Width	Length	Height
250	550	412

Description
Stripping and crimping device , 100 - 240 V version, electro-pneumatic, for loose ferrules with insulating collar, 0.25 - 4 mm ² , incl. conversion kits 0.5 - 1.5 mm ² (sleeve length 6 - 12 mm) ¹⁾

Ordering data		
Type	Order No.	Pcs./Pkt.

CF 1000-1,5	1208199	1

Extension kit, complete, for CF 1000, for loose ferrules with insulating collar, from serial number 160637
0.25/0.34 mm ² , sleeve length 6 and 8 mm ¹⁾
2.5 mm ² , sleeve length 6 to 12 mm
4 mm ² , sleeve length 10 mm
Replacement blade , V-form, for CF 1000
0.25 to 2.5 mm ²
4 mm ²
Extension components for processing Al...GB sleeves and conductors with thicker insulation. (from device serial number 160637)
Separation plate, for Al...GB, 0.5 to 1.5 mm ²
Locator, for Al...GB 0.5 mm ² sleeves
for Al...GB 0.75 mm ² sleeves
for Al...GB 1.0 mm ² sleeves
for Al...GB 1.5 mm ² sleeves
Replacement feeder bowl , for CF 1000-1,5
0.25 - 0.34 mm ² sleeves
0.50 - 1.5 mm ² sleeves
2.5 and 4.0 mm ² sleeves

Accessories

Type	Order No.	Pcs./Pkt.
CF 1000-TOOLKIT 0,34/6-8	1208226	1
CF 1000-TOOLKIT 2,5/6-12	1208242	1
CF 1000-TOOLKIT 4,0/10	1208271	1
CF 1000 EM	1205215	1
CF 1000 EM4,0	1212663	1
CF 1000 VEP1,5 GB	1206901	1
CF 1000 LOC0,5 GB	1212907	1
CF 1000 LOC0,75 GB	1212908	1
CF 1000 LOC1,0 GB	1212909	1
CF 1000 LOC1,5 GB	1212910	1
CF 1000 SORT0,34	1206890	1
CF 1000 SORT1,5	1204326	1
CF 1000 SORT4,0	1206887	1

Stripping and crimping device for loose ferrules



Notes:

For ferrules for our CF 1000..., refer to the hand tools section starting on page 480.



Conductor cross section
of 4 / 6 / 10 mm²

The CF 1000-10 processes loose ferrules from 4 ... 10 mm² with plastic collars in accordance with DIN 46228-4 / UL 486F

- The conductor is stripped and crimped with a ferrule to a high standard of quality in a single step, which enables up to 1000 conductors to be processed per hour
- With the integrated counter, you get an overview of the quantities
- A cross section change can be carried out in just a few steps without any need for tools. The sleeve length can be easily set with a screwdriver. Additional settings are not necessary. You can order additional feeder bowls as accessories for an even faster cross section change
- The extraction forces conform to the requirements of IEC/EN 60999 and IEC/EN 60947
- The Al ... ferrules in accordance with UL 486F are UL-certified when used in combination with the CF 1000-10. For further information, visit www.phoenixcontact.com

Dimensions	
	[mm]
General data	
Weight	[kg]
Power supply	[V]
Pressure range	[bar]
Air consumption per compression	[l]
Working cycle	[s]
Insertion length	[mm]
Crimping	

Description

Stripping and crimping machine, 100 - 240 V version, electro-pneumatic, for loose ferrules with insulating collar,

4 mm², 6 mm², and 10 mm² (sleeve lengths 10 - 12 mm), without conversion kit

Conversion kit, complete, for CF 1000-10, for loose ferrules with insulating collar

4 mm², sleeve length 10 - 12 mm

6 mm², sleeve length 12 mm

10 mm², sleeve length 12 mm

Replacement blade, V-form, for CF 1000-10

4 mm²

6 mm²

10 mm²

ERC

Technical data

Width	Length	Height
250	550	412
Power supply	100 ... 240, 50 Hz ... 60 Hz	
Pressure range	5 - 6	
Air consumption per compression	1.2	
Working cycle	1.5	
Insertion length	> 40 mm	
Crimping	Trapezoidal	

Ordering data

Type	Order No.	Pcs./Pkt.
CF 1000-10	1212456	1

Accessories

	Order No.	Pcs./Pkt.
CF 1000-10-TOOLKIT 4/10-12	1212458	1
CF 1000-10-TOOLKIT 6/12	1212459	1
CF 1000-10-TOOLKIT 10/12	1212460	1
CF 1000 EM4,0	1212663	1
CF 1000-10 EM6,0	1212664	1
CF 1000-10 EM10	1212665	1



Installation and mounting material – CABINET add-on

The CABINET add-on range includes mounting material as well as mounting equipment and additional control cabinet components.

By using suitable tools and control cabinet components, switching devices and control cabinets can be implemented in a way that saves both time and space. We offer a comprehensive range of products for this.

DIN rails and end brackets, for example, ensure the secure attachment of electrical connecting elements and components inside the control cabinet. Additional safety is ensured by cover profiles, while shield clamps enable EMC-compliant wiring. We also offer a comprehensive selection of cable protection systems and cable ducts right through to cable ties for every application.

The CLIPSAFE housing range also provides comprehensive protection for your applications in industrial environments and in process technology. On request, empty enclosures can be supplied ready equipped with terminal blocks and cable glands.

The housings are supplied with corresponding equipment approval for use in potentially explosive areas. Our worldwide sales network provides professional customer support and short delivery times.

Product range overview

Component mounting

NS 15, NS 35, and NS 32 DIN rails	522
End brackets for DIN rails	538
Marking for terminal strips	540
Brackets for fixing DIN rails	544
Adapters and support bracket	545
Covering hoods	546

Busbars

Neutral busbar	552
Connection terminal blocks for busbars	554

Connection terminal blocks and sockets

Europe connectors	556
Junction box connectors	560
Sockets	562

Shielding

Shield connection clamps	568
Support brackets	570

Cable management

Cable routing	578
Cable ducts	579
Cable clamps for DIN rail	583

Cable protection

Protective hoses and screw connections	584
Accessories	602

Cable bundling

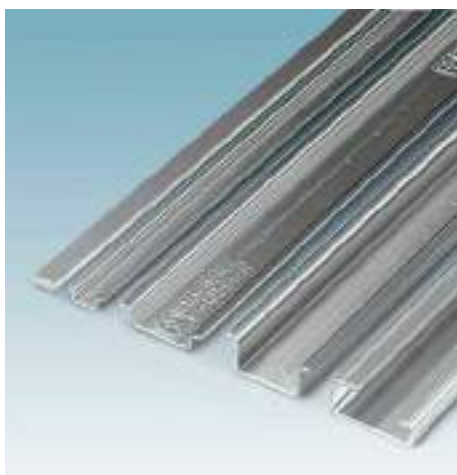
Cable ties	608

CLIPSAFE junction boxes and empty enclosures

Ex stainless steel empty enclosures	626
Ex polyester empty enclosures	636
Polyester empty enclosures	644
ABS terminal boxes	646
Ex cable glands	650



Sockets that can be mounted on DIN rails serve for easy connection of electrical auxiliary devices for assembly, testing, lighting, etc. They enable worldwide use in switchgear, control cabinets, and in simple sub-distributions. Use in all parts of the world makes it essential to offer the sockets with pin connector patterns that are standard in each country, in accordance with the currently applicable standards and regulations.



The standard DIN rail is a core product in the control cabinet. In addition to standard profiles such as NS 15 and NS 35 rails, our portfolio also includes special profiles, various materials, and surface finishes to meet a wide range of requirements.



The shield clamps from the SK ... and SKS ... series excel, thanks to simple mounting, as well as the busbar right on the mounting plate. The cables and conductors can be easily connected by means of screw or spring connection.



The cover profiles are used to cover live parts. They also prevent unintended actuation of terminal points or disconnect terminal blocks.



When used in conjunction with the various standard DIN rails, the end brackets ensure that the components remain securely attached to the rails. A comprehensive range of end brackets is available for specific applications.



Phoenix Contact offers various connection terminal blocks, branch terminals, and feed-in terminals for busbars with corresponding accessories.



The Europe connectors are available in various versions and sizes. Wire protection. The individual positions can be separated easily by twisting – no tools necessary. The Push-in connection technology of the junction box connector series makes it easy to insert rigid conductors or conductors with ferrules into the terminal point. Low insertion forces and high pull-out forces ensure a secure connection.



The broad spectrum of wiring channels enables a flexible, optimum use of the space available in your control cabinet. A T-connection or cross connection is established through a simple, burr-free break out of the lateral bridges.



The protective hoses, made from plastic-coated spring steel, steel, and stainless steel provide optimum protection in the respective area of use. Countless accessories, such as cable glands and strain relief, enable easy, secure latching.

Component mounting

DIN rails NS 15, flat design



- The design of the DIN rails complies with European standard EN 60715
- High degree of dimensional accuracy and surface finish
- All DIN rails are also available cut to length

The DIN rails are available in various materials and surface coatings:

- Zinc plated, for indoor applications
- White passivated, for indoor applications
- Galvanized and white passivated (also referred to as thin layer passivated or blue passivated), for indoor applications
- Zinc plated and thick layer passivated, for indoor and protected outdoor applications
- Copper and aluminum; as a result of their improved conductivity, these versions can also be used as PEN busbars
- Stainless steel, for indoor and outdoor applications, plus can also be used in aggressive environments

Notes:

For dimensional drawings and ordering examples, see page 537.

For PPS ... DIN rail profile cutters, see page 400

¹⁾ Please specify the desired length in millimeters when placing your order. See order example.

²⁾ Please specify the desired length and borehole when placing your order. See order example.



Steel, galvanized and thick layer passivated

General data

Material / coating

Technical data

Steel / galvanized, passivated with a thick layer

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
DIN rail, unperforated , in accordance with EN 60715 - 15 x 5.5 mm, supply length: 2 m	silver	NS 15 UNPERF 2000MM	1401695	5
DIN rail, unperforated , in accordance with EN 60715 - 15 x 5.5 mm, supply length: up to 2 m, cut to customer-specified length ¹⁾	silver	NS 15 UNPERF/...	1208089	1
DIN rail, unperforated , in accordance with EN 60715 - 15 x 5.5 mm, supply length: up to 2 m, cut to customer-specified length, and equipped with fixing holes ²⁾	silver	NS 15 UNPERF/SO/...	1208092	1
DIN rail, perforated , in accordance with EN 60715 - 15 x 5.5 mm, hole size: 4.2 x 12.2 mm, supply length: 2 m	silver			
DIN rail, perforated , in accordance with EN 60715 - 15 x 5.5 mm, hole size: 4.2 x 12.2 mm, supply length: up to 2 m, cut to customer-specified length ¹⁾	silver			
DIN rail, perforated , dimensions in accordance with EN 60715 - 15 x 5.5 mm, hole size: 4.2 x 12.2 mm, supply length: 2 m	silver			
DIN rail, perforated , dimensions in accordance with EN 60715 - 15 x 5.5 mm, hole size: 4.2 x 12.2 mm, supply length: 2 m	silver			



Steel, galvanized and thick layer passivated



Steel, galvanized and white passivated



Aluminum

Technical data
Steel / galvanized, passivated with a thick layer

Ordering data

Type	Order No.	Pcs./Pkt.
NS 15 PERF 2000MM	1401682	5
NS 15 PERF/...	1208102	1

Technical data
Steel / galvanized, white passivated

Ordering data

Type	Order No.	Pcs./Pkt.
NS 15 WH PERF 2000MM	1204096	5

Technical data
Aluminum / uncoated

Ordering data

Type	Order No.	Pcs./Pkt.
NS 15 AL PERF 2000MM	1401763	5

Component mounting

DIN rails NS 35, flat design



- The design of the DIN rails complies with European standard EN 60715
- High degree of dimensional accuracy and surface finish
- All DIN rails are also available cut to length

The DIN rails are available in various materials and surface coatings:

- Zinc plated, for indoor applications
- Galvanized and white passivated (also referred to as thin layer passivated or blue passivated), for indoor applications
- Copper and aluminum; as a result of their improved conductivity, these versions can also be used as PEN busbars
- Stainless steel, for indoor and outdoor applications, plus can also be used in aggressive environments

Notes:

For dimensional drawings and ordering examples, see page 537.

For PPS ... DIN rail profile cutters, see page 400.

¹⁾ Please specify the desired length in millimeters when placing your order. See order example.

²⁾ Please specify the desired length and borehole when placing your order. See order example.



Steel, galvanized and thick layer passivated

General data

Material / coating

Description

Color

DIN rail, unperforated, in accordance with EN 60715 - 35 x 7.5 mm, low design, supply length: 2 m

silver

DIN rail, unperforated, in accordance with EN 60715 - 35 x 7.5 mm, low design, supply length: 1 m

silver

DIN rail, unperforated, in accordance with EN 60715 - 35 x 7.5 mm, low design, supply length: up to 2 m, cut to customer-specified length¹⁾

silver

DIN rail, unperforated, in accordance with EN 60715 - 35 x 7.5 mm, low design, supply length: up to 2 m, cut to customer-specified length, and equipped with fixing holes²⁾

silver

DIN rail, unperforated, dimensions in accordance with EN 60715 - 35 x 7.5 mm, low design, supply length: 2 m

silver

DIN rail, unperforated, dimensions in accordance with EN 60715 - 35 x 7.5 mm, low design, supply length: 2 m

silver

DIN rail, unperforated, dimensions in accordance with EN 60715 - 35 x 7.5 mm, low design, supply length: 2 m

copper-colored

DIN rail end cap

for NS 35/7,5 DIN rail

Technical data

Steel / galvanized, passivated with a thick layer

Ordering data

Type	Order No.	Pcs./Pkt.
NS 35/ 7,5 UNPERF 2000MM	0801681	5
NS 35/ 7,5 UNPERF 1000MM	1207649	20
NS 35/ 7,5 UNPERF/...	1208115	1
NS 35/ 7,5 UNPERF/SO/...	1208128	1

Accessories

NS 35/ 7,5 CAP	1206560	100



Steel, galvanized and white passivated



Steel, galvanized



Copper

Technical data
Steel / galvanized, white passivated

Ordering data		
Type	Order No.	Pcs./Pkt.
NS 35/ 7,5 WH UNPERF 2000MM	1204122	5

Accessories		
NS 35/ 7,5 CAP	1206560	100

Technical data
Steel / galvanized

Ordering data		
Type	Order No.	Pcs./Pkt.
NS 35/ 7,5 ZN UNPERF 2000MM	1206434	5

Accessories		
NS 35/ 7,5 CAP	1206560	100

Technical data
Copper / uncoated

Ordering data		
Type	Order No.	Pcs./Pkt.
NS 35/ 7,5 CU UNPERF 2000MM	0801762	5

Accessories		
NS 35/ 7,5 CAP	1206560	100

Installation and mounting material – CABINET add-on

Component mounting

DIN rails NS 35, flat design

Notes:
For dimensional drawings and ordering examples, see page 537.
For PPS ... DIN rail profile cutters, see page 400.



Aluminum



Stainless steel

General data	
Material / coating	
Description	
DIN rail, unperforated , dimensions in accordance with EN 60715 - 35 x 7.5 mm, low design, supply length: 2 m	Color
	silver
DIN rail, unperforated , dimensions in accordance with EN 60715 - 35 x 7.5 mm, low design, supply length: 2 m	Color
	silver
DIN rail end cap for NS 35/7,5 DIN rail	

Technical data		
Aluminum / uncoated		
Ordering data		
Type	Order No.	Pcs./Pkt.
NS 35/ 7,5 AL UNPERF 2000MM	0801704	5
Accessories		
NS 35/ 7,5 CAP	1206560	100

Technical data		
Stainless steel V2A / uncoated		
Ordering data		
Type	Order No.	Pcs./Pkt.
NS 35/ 7,5 V2A UNPERF 2000MM	0801377	5
Accessories		
NS 35/ 7,5 CAP	1206560	100

Protective caps for DIN rails

- NS 35/... CAP end caps can be attached to the ends of NS 35/7,5 and NS 35/15 DIN rails



Protective caps for DIN rails

Dimensions	
General data	
Material	
Description	
DIN rail end cap for NS 35/7,5 DIN rail	Color
	gray
DIN rail end cap for NS 35/15 DIN rail	Color
	gray

Technical data		
Width	Length	Height
PP		
Ordering data		
Type	Order No.	Pcs./Pkt.
NS 35/ 7,5 CAP	1206560	100
NS 35/15 CAP	1206573	100

NS 35 DIN rails, flat design, perforated

Notes:

¹⁾ Please specify the desired length in millimeters when placing your order. See order example.

For PPS ... DIN rail profile cutters, see page 400.



Steel, galvanized and thick layer passivated



Steel, galvanized

General data		Technical data			Technical data		
Material / coating		Steel / galvanized, passivated with a thick layer			Steel / galvanized		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
DIN rail, perforated , in accordance with EN 60715 - 35 x 7.5 mm, low design, hole size: 6.2 x 15 mm, supply length: 2 m	silver	NS 35/ 7,5 PERF 2000MM	0801733	5			
DIN rail, perforated , in accordance with EN 60715 - 35 x 7.5 mm, low design, hole size: 6.2 x 15 mm, supply length: 1 m	silver	NS 35/ 7,5 PERF 1000MM	0807012	10			
DIN rail, perforated , in accordance with EN 60715 - 35 x 7.5 mm, low design, hole size: 6.2 x 15 mm for cabinet width/depth of 0.8 m, supply length: 755 mm	silver	NS 35/ 7,5 PERF 755MM	1207640	10			
DIN rail, perforated , in accordance with EN 60715 - 35 x 7.5 mm, low design, hole size: 6.2 x 15 mm for cabinet width/depth of 1.2 m, supply length: 1155 mm	silver	NS 35/ 7,5 PERF 1155MM	1207666	10			
DIN rail, perforated , in accordance with EN 60715 - 35 x 7.5 mm, low design, hole size: 6.2 x 15 mm, supply length: up to 2 m, cut to customer-specified length ¹⁾	silver	NS 35/ 7,5 PERF/...	1208131	1			
DIN rail, perforated , dimensions in accordance with EN 60715 - 35 x 7.5 mm, hole size: 5.2 x 18 mm, supply length: 2 m	silver	NS 35/ 7,5 PERF (18X5,2)2000MM	1210019	5			
DIN rail, perforated , dimensions in accordance with EN 60715 - 35 x 7.5 mm, galvanized, low design, hole size: 6.2 x 15 mm, supply length: 2 m	silver				NS 35/ 7,5 ZN PERF 2000MM	1206421	5
DIN rail, perforated , dimensions in accordance with EN 60715 - 35 x 7.5 mm, low design, hole size: 5.2 x 18 mm, supply length: 2 m	silver				NS 35/ 7,5 ZN PERF (18X5,2) 2M	0804278	25
		Accessories			Accessories		
DIN rail end cap for NS 35/7,5 DIN rail		NS 35/ 7,5 CAP	1206560	100	NS 35/ 7,5 CAP	1206560	100

Component mounting

NS 35 DIN rails, flat design, perforated



- High degree of dimensional accuracy and surface finish
- All DIN rails are also available cut to length

The DIN rails are available in various materials and surface coatings:

- Zinc plated, for indoor applications
- Galvanized and white passivated (also referred to as thin layer passivated or blue passivated), for indoor applications
- Zinc plated and thick layer passivated, for indoor and protected outdoor applications
- Copper and aluminum; as a result of their improved conductivity, these versions can also be used as PEN busbars
- Stainless steel, for indoor and outdoor applications, plus can also be used in aggressive environments



Aluminum

General data

Material / coating

Description

DIN rail, perforated, in accordance with EN 60715 - 35 x 7.5 mm, low design, hole size: 6.2 x 15 mm, supply length: 2 m

aluminum
color

DIN rail, perforated, in accordance with EN 60715 - 35 x 7.5 mm, low design, hole size: 6.2 x 15 mm, supply length: 2 m

silver

DIN rail, perforated, in accordance with EN 60715 - 35 x 7.5 mm, low design, hole size: 5.2 x 25 mm, supply length: 2 m

silver

DIN rail end cap

for NS 35/7,5 DIN rail

Technical data

Aluminum / uncoated

Ordering data

Type	Order No.	Pcs./Pkt.
NS 35/ 7,5 AL PERF 2000MM	0814681	5

Accessories

NS 35/ 7,5 CAP	1206560	100



Steel, galvanized and white passivated



Steel, galvanized and white passivated

Technical data

Steel / galvanized, white passivated

Ordering data

Type	Order No.	Pcs./Pkt.
NS 35/ 7,5 WH PERF 2000MM	1204119	5

Accessories

NS 35/ 7,5 CAP	1206560	100

Technical data

Steel / galvanized, white passivated

Ordering data

Type	Order No.	Pcs./Pkt.
NS 35/ 7,5 WH PERF(5,2X25)2000MM	1206418	5

Accessories

NS 35/ 7,5 CAP	1206560	100

Installation and mounting material – CABINET add-on

Component mounting

NS 35 DIN rails, tall design

Notes:
For dimensional drawings and ordering examples, see page 537.
For PPS ... DIN rail profile cutters, see page 400.
¹⁾ Please specify the desired length in millimeters when placing your order. See order example.
²⁾ Please specify the desired length and borehole when placing your order. See order example.



Steel, galvanized and thick layer passivated



Steel, galvanized and white passivated

General data

Material / coating

Technical data

Steel / galvanized, passivated with a thick layer

Ordering data

Description	Color
DIN rail, unperforated , in accordance with EN 60715 - 35 x 15 mm, tall design, supply length: 2 m	silver
DIN rail, unperforated , in accordance with EN 60715 - 35 x 15 mm, tall design, supply length: 1 m	silver
DIN rail, unperforated , similar to EN 60715 - 35 x 15 mm, tall design, supply length: up to 2 m, cut to customer-specified length ¹⁾	silver
DIN rail, unperforated , in accordance with EN 60715 - 35 x 15 mm, tall design, cut to customer-specified length, and equipped with fixing holes ²⁾	silver
DIN rail, unperforated , similar to EN 60715 - 35 x 15 mm, tall design, supply length: 2 m	silver
DIN rail, unperforated , similar to EN 60715 - 35 x 15 mm, tall design, supply length: 2 m	silver
DIN rail, unperforated , similar to EN 60715 - 35 x 15 mm, tall design, supply length: 2 m	copper-colored
DIN rail, unperforated , in accordance with EN 60715 - 35 x 15 mm, material thickness: 2.3 mm, tall design, supply length: 2 m	silver

Accessories

DIN rail end cap
for NS 35/15 DIN rail

NS 35/15 CAP 1206573 100

Technical data

Steel / galvanized, white passivated

Ordering data

Type	Order No.	Pcs./Pkt.
NS 35/15 UNPERF 2000MM	1201714	5
NS 35/15 UNPERF 1000MM	1207655	20
NS 35/15 UNPERF/...	1208144	1
NS 35/15 UNPERF/SO/...	1208157	1
NS 35/15 WH UNPERF 2000MM	1204135	5

Accessories

NS 35/15 CAP 1206573 100



Steel, galvanized



Copper



Steel, galvanized, and thick layer passivated,
material thickness 2.3 mm

Technical data

Steel / galvanized

Ordering data

Type	Order No.	Pcs./Pkt.
NS 35/15 ZN UNPERF 2000MM	1206586	5

Accessories

NS 35/15 CAP	1206573	100

Technical data

Copper / uncoated

Ordering data

Type	Order No.	Pcs./Pkt.
NS 35/15 CU UNPERF 2000MM	1201895	5

Accessories

NS 35/15 CAP	1206573	100

Technical data

Steel / galvanized, passivated with a thick layer

Ordering data

Type	Order No.	Pcs./Pkt.
NS 35/15-2,3 UNPERF 2000MM	1201798	5

Accessories

Component mounting

NS 35 DIN rails, tall design, perforated



- The design of the DIN rails complies with European standard EN 60715
- High degree of dimensional accuracy and surface finish
- All DIN rails are also available cut to length

The DIN rails are available in various materials and surface coatings:

- Zinc plated, for indoor applications
- Galvanized and white passivated (also referred to as thin layer passivated or blue passivated), for indoor applications
- Zinc plated and thick layer passivated, for indoor and protected outdoor applications
- Aluminum and copper. As a result of their improved conductivity, these versions can also be used as PEN busbars
- Stainless steel, for indoor and outdoor applications, plus can also be used in aggressive environments

Notes:

For dimensional drawings and ordering examples, see page 537.

For PPS ... DIN rail profile cutters, see page 400.

¹⁾ Please specify the desired length in millimeters when placing your order. See order example.



Steel, galvanized and thick layer passivated

General data

Material / coating

Technical data

Steel / galvanized, passivated with a thick layer

Ordering data

Description	Color
DIN rail, perforated , similar to EN 60715 - 35 x 15 mm, hole size: 6.2 x 15 mm, tall design, supply length: 2 m	silver
DIN rail, perforated , in accordance with EN 60715 - 35 x 15 mm, hole size: 6.2 x 15 mm, tall design, supply length: 1 m	silver
DIN rail, perforated , in accordance with EN 60715 - 35 x 15 mm, hole size: 6.2 x 15 mm, tall design, for cabinet width/depth of 0.8 m	silver
for cabinet width/depth of 0.8 m, supply length: 755 mm	silver
for cabinet width/depth of 1.0 m, supply length: 955 mm	silver
for cabinet width/depth of 1.2 m, supply length: 1155 mm	silver
DIN rail, perforated , similar to EN 60715 - 35 x 15 mm, hole size: 6.2 x 15 mm, tall design, supply length: up to 2 m, cut to customer-specified length ¹⁾	silver
DIN rail, perforated , similar to EN 60715 - 35 x 15 mm, hole size: 6.2 x 15 mm, tall design, supply length: 2 m	silver
DIN rail, perforated , similar to EN 60715 - 35 x 15 mm, hole size: 6.2 x 15 mm, galvanized, tall design, supply length: 2 m	silver
DIN rail, perforated , similar to EN 60715 - 35 x 15 mm, hole size: 5.2 x 18 mm, supply length: 2 m	silver
DIN rail, perforated , similar to EN 60715 - 35 x 15 mm, tall design, hole size: 5.2 x 25 mm, supply length: 2 m	silver
DIN rail, perforated , similar to EN 60715 - 35 x 15 mm, tall design, hole size: 5.2 x 18 mm, supply length: 2 m	silver

Type	Order No.	Pcs./Pkt.
NS 35/15 PERF 2000MM	1201730	5
NS 35/15 PERF 1000MM	1207658	10
NS 35/15 PERF 755MM	1207679	10
NS 35/15 PERF 955MM	1207682	10
NS 35/15 PERF 1155MM	1207695	10
NS 35/15 PERF/...	1208160	1
NS 35/15 PERF (18X5,2) 2000MM	1210006	5



Steel, galvanized and white passivated



Steel, galvanized

Technical data

Steel / galvanized, white passivated

Ordering data

Type	Order No.	Pcs./Pkt.
NS 35/15 WH PERF 2000MM	0806602	5
NS 35/15 WH PERF(5,2X25)2000MM	1206476	5

Technical data

Steel / galvanized

Ordering data

Type	Order No.	Pcs./Pkt.
NS 35/15 ZN PERF 2000MM	1206599	5
NS 35/15 ZN PERF(18X5,2)2000MM	3240571	25

Component mounting

NS 32 DIN rails

Notes:
For PPS ... DIN rail profile cutters, see page 400.
1) Please specify the desired length in millimeters when placing your order. See order example.
2) Please specify the desired length and borehole when placing your order. See order example.



Steel, galvanized and thick layer passivated



Aluminum

General data		Technical data			Technical data		
Material / coating		Steel / galvanized, passivated with a thick layer			Aluminum / uncoated		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
DIN rail, unperforated , in accordance with EN 60715 - G32, supply length: 2 m	silver	NS 32 UNPERF 2000MM	1201015	5			
DIN rail, perforated , in accordance with EN 60715 - G32, supply length: 2 m	silver	NS 32 PERF 2000MM	1201002	5			
DIN rail, unperforated , similar to EN 60715, supply length: 2 m	silver				NS 32 AL UNPERF 2000MM	1201028	5
DIN rail, unperforated , similar to EN 60715 - G32, supply length: 2 m	copper-colored						
DIN rail, unperforated , in accordance with EN 60715 - G32, supply length: 2 m	copper-colored						
DIN rail, unperforated , in accordance with EN 60715 - G32, supply length: 2 m	silver						
DIN rail, unperforated , in accordance with EN 60715 - G32, tall design, cut to customer-specified length, supply length: up to 2 m ¹⁾	silver						
DIN rail, unperforated , in accordance with EN 60715 - G32, cut to customer-specified length, and equipped with fixing holes ²⁾	silver						



Copper



Steel, galvanized and white passivated



Steel, galvanized and thick layer passivated

Technical data		
Copper / uncoated		
Ordering data		
Type	Order No.	Pcs./Pkt.
NS 32 CU/120QMM UNPERF 2000MM	1201280	5
NS 32 CU/35QMM UNPERF 2000MM	1201358	5

Technical data		
Steel / galvanized, white passivated		
Ordering data		
Type	Order No.	Pcs./Pkt.
NS 32 WH UNPERF 2000MM	1204106	5

Technical data		
Steel / galvanized, passivated with a thick layer		
Ordering data		
Type	Order No.	Pcs./Pkt.
NS 32 UNPERF/...	1208173	1
NS 32 UNPERF/SO/...	1208186	1

Component mounting

NS 35 DIN rails, tall design that supports the use of slide nuts

- The NS 35/15 AL DIN rail has been designed to accommodate GLM ... slide nuts
- The slide nuts even allow components without an additional snap-on foot to be mounted

Notes:
For dimensional drawings and ordering examples, see page 537.



NS 35, 15 mm high DIN rail with slide nut guide

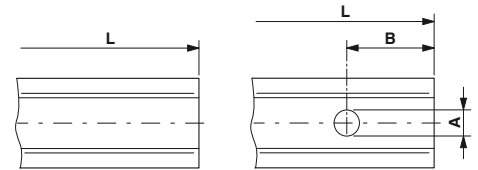
Dimensions		Technical data		
General data	[mm]	Width	Length	Height
		35	2000	15
Material				
Aluminum				
Ordering data				
Description	Color	Type	Order No.	Pcs./Pkt.
DIN rail, unperforated similar to EN 60715 - 35 x 15 mm, deep-drawn, tall design, with slide nut guide, supply length: 2 m	silver	NS 35/15 AL UNPERF 2000MM	1201756	5
DIN rail, unperforated, similar to EN 60715 - 35 x 15 mm, profile-specific, tall design, with slide nut guide, supply length: up to 2 m, cut to customer-specified length	silver	NS 35/15 AL UNPERF/...	1210213	1
Slide nut, for DIN rail NS 35/15-AL, for fixing devices, material: steel				
M4	silver	GLM 4	1201769	100
M5	silver	GLM 5	1201772	100
M6	silver	GLM 6	1201785	100

Example configuration for NS 35/15 UNPERF/SO/...:

(Minimum order quantity: 20 pcs.)

When ordering 20 unperforated NS 35/15 DIN rails with 6 mm $\varnothing$ end holes at both ends (as 20 mm elongated holes, the hole center of which is 50 mm from the end of the rail) with a length of 550 mm, the following must be specified:

Quantity	Order No.	Length in mm	Dim. A	Dim. B	Dim. C
20		550	6	50	20

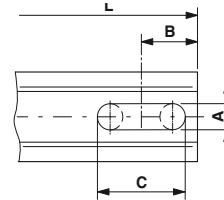


Example configuration for NS 35/7,5 UNPERF/...:

(Minimum order quantity: 20 pcs.)

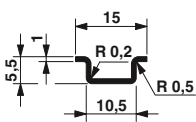
When ordering 20 unperforated NS 35/7,5 DIN rails without end holes with a length of 1750 mm, the following must be specified:

Quantity	Order No.	Length in mm
20		1750

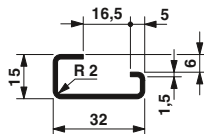


L = length
A = hole diameter [mm]
B = distance between end and hole center [mm]
C = length of elongated hole [mm]
The following dimensions are possible:
Round hole: C = 0
Elongated hole: C = 10, 15, 20 or 25 mm

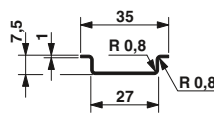
Dimensional drawings for DIN rails



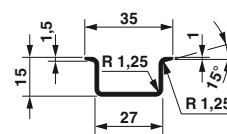
NS 15



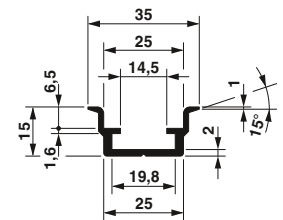
NS 32



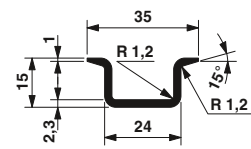
NS 35/7,5



NS 35/15



NS 35/15-AL



NS 35/15-2,3

Installation and mounting material – CABINET add-on

Component mounting

Snap-on end bracket, for NS 15 and NS 35 DIN rails

- The geometry of the CLIPFIX end bracket ensures reliable fixing on the different DIN rail systems
- Overall width of just 5.2 mm
- Parking facility for bridges and connectors
- Large area for marking



End bracket for NS 15 DIN rail



End bracket for NS 35 DIN rail

Dimensions	
	[mm]
General data	
Material	
Flammability rating in accordance with UL 94	
Description	Color
End bracket , for snapping onto NS 15, 5.2 mm wide, can be marked with ZB 5 and ZBF 5, KLM, KLM 2 and KLM 3, provides facilities for retaining bridges and test accessories	
	gray
End bracket , for snapping onto NS 35, 5.15 mm wide, can be marked with ZB 5 and UCT-EM (30X5), parking option for bridges and test plugs	
	gray
Material: V0	gray
End bracket , for snapping onto NS 35, 9.5 mm wide, can be marked with ZB 6, ZB 8/27, KLM...	
	gray
	white

Technical data		
Width	Length	Height
5.2	22	22.6
PA		
V2		
Ordering data		
Type	Order No.	Pcs./Pkt.
CLIPFIX 15	3022263	50

Technical data		
Width	Length	Height
5.15	48.5	35
PA		
V2		
Ordering data		
Type	Order No.	Pcs./Pkt.
CLIPFIX 35-5	3022276	50
CLIPFIX 35-5 V0	3032350	50
CLIPFIX 35	3022218	50
CLIPFIX 35 WH	0802723	50

Screw-on end bracket, for NS 35 and NS 32 DIN rails

- With universal foot for NS 35 and NS 32 DIN rails
- Tall and low designs
- Large area for marking



For NS 35 and NS 32 DIN rails



For multi-level terminal blocks
on NS 35 and NS 32 DIN rails

Dimensions	
	[mm]
General data	
Material	
Tightening torque	[Nm]
Flammability rating in accordance with UL 94	
Description	Color
End bracket , for screwing on, for NS 35 and NS 32, can be marked with ZB 6, KLM, KLM-A and UBE	
	gray
Universal end bracket , for screwing on, for NS 35 and NS 32, for supporting the ends of double-level and three-level terminal blocks, can be marked with ZB 10	
	gray

Technical data		
Width	Length	Height
9.5	50.5	35.3
PA		
- 0.8		
V2		
Ordering data		
Type	Order No.	Pcs./Pkt.
E/UK	1201442	50

Technical data		
Width	Length	Height
10	55.5	50
PA		
-		
V2		
Ordering data		
Type	Order No.	Pcs./Pkt.
E/UK 1	1201413	50

Screw-on end bracket, for NS 15 DIN rail

The E/MBK end bracket has been specially designed for the MBK miniature IEC terminal blocks.

- Can be screwed onto NS 15 DIN rails
- Can be mounted directly on the mounting plate as an MBK terminal block base
- Large area for marking



For miniature IEC terminal blocks
on NS 15 DIN rail

Dimensions		Technical data		
	[mm]	Width	Length	Height
		6.2	22	11.4
General data				
Material		PA		
Tightening torque	[Nm]	-		
Flammability rating in accordance with UL 94		V2		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
End bracket, for snapping onto NS 15, for slide-on miniature terminal blocks, can be fastened with a screw, can be marked with KLM 1	gray	E/MBK	1401637	100
End bracket, for screwing onto NS15, 6.1 mm wide, can be fastened with a screw, can be marked with KLM 1	gray			



For NS 15 DIN rail

Dimensions		Technical data		
	[mm]	Width	Length	Height
		6.1	21.2	18
General data				
Material		PA		
Tightening torque	[Nm]	-		
Flammability rating in accordance with UL 94		V2		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
E/MK 1			1421659	100

Screw-on end bracket, for NS 35 and NS 32 DIN rails

- The E/AL-NS 35 provides optimum support for large terminals and devices
- Large area for marking



For NS 35 DIN rail

Dimensions		Technical data		
	[mm]	Width	Length	Height
		9.5	48.6	32.8
General data				
Material		PA		
Tightening torque	[Nm]	-		
Flammability rating in accordance with UL 94		V0		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
End bracket, for screwing onto NS 35, can be equipped with terminal strip marker KLM-A or ZB 8	gray	E/NS 35 N	0800886	50
	black	E/NS 35 N BK	0804271	50
End bracket, aluminum, for screwing on, for end support of 50 - 300 mm ² terminal blocks, can be marked with ZB 10, for mounting on NS 35...	silver			
End bracket, aluminum, for screwing on, for end support of UKH 50 - UKH 240, can be marked with ZB 10, for mounting on NS 32...	silver			



For terminal blocks from 50 mm²
on NS 35 and NS 32 DIN rails

Dimensions		Technical data		
	[mm]	Width	Length	Height
		10	59	44
General data				
Material		Aluminum		
Tightening torque	[Nm]	-		
Flammability rating in accordance with UL 94		-		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
E/AL-NS 35			1201662	10
E/AL-NS 32			1201659	10

Installation and mounting material – CABINET add-on

Component mounting

Marking for terminal strips

- The KLM terminal strip markers are specially developed for the CLIPFIX end brackets
- Infinite height adjustment of the marking area is possible, thanks to the fine pitching
- The KLM 3-L is suitable for multi-level terminal blocks and can be cut in two specific places



For CLIPFIX end brackets,
can be marked with snap-on label



For CLIPFIX end brackets,
can be marked with label

Dimensions	
	[mm]
General data	
Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	
Description	Color
Terminal strip marker , adjustable height, for CLIPFIX ... end bracket can be marked with SS-ZB Lettering field size: 20 x 8 mm	gray
Terminal strip marker , adjustable height, for CLIPFIX ... end bracket can be marked with EML (20x8) label or with B-STIFT or X-PEN	gray
Can be cut to length	gray

Technical data		
Width	Length	Height
12.5	22	42
PA V2 -40 ... 100 Halogen-free		
Ordering data		
Type	Order No.	Pcs./Pkt.
KLM 2	0807575	100

Technical data		
Width	Length	Height
10	22	27
PA V2 -40 ... 100 Halogen-free		
Ordering data		
Type	Order No.	Pcs./Pkt.
KLM 3	0811969	100
KLM 3-L	0814788	100

Marking for terminal strips



For E/MK and E/MBK end brackets



For E/UK and CLIPFIX 35 end brackets

General data	
Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	
Description	Color
Terminal strip markers , for E/MK, E/MK 1 and E/MBK end bracket, lettering field: 24 x 4 mm	transparent
Terminal strip markers , for E/UK or CLIPFIX 35 end brackets, lettering field: 25 x 6 mm	transparent
Insert strips for thermal transfer printers , 5000 labels per roll	
1 roll = 5000 markers	white
1 roll = 5000 markers	white

Technical data		
ABS HB -40 ... 80 Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
KLM 1	1004319	100
Accessories		
EMT (24X4)R	0816265	1

Technical data		
ABS HB -40 ... 80 Free from silicone and halogen		
Ordering data		
Type	Order No.	Pcs./Pkt.
KLM	1004306	100
Accessories		
EMT (25X6)R	0817264	1

Marking for terminal strips



For CLIPFIX end brackets,
can be marked with label



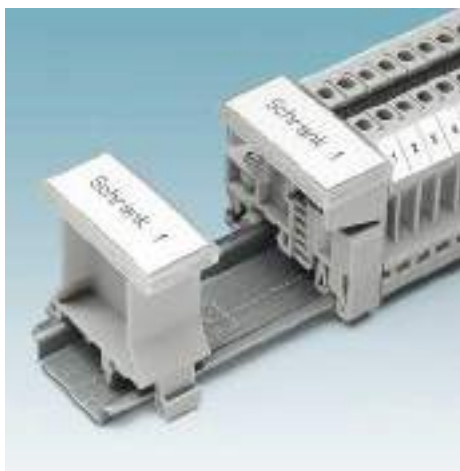
For E/UK, E/NS 35 N,
and CLIPFIX 35 end brackets

General data		Technical data			Technical data		
Material		PA			ABS		
Flammability rating in accordance with UL 94		V2			HB		
Temperature range	[°C]	-40 ... 100			-40 ... 80		
Components		Halogen-free			Free from silicone and halogen		
Ordering data		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Terminal strip marker , height adjustable, central surface, for CLIPFIX 15, CLIPFIX 35, and CLIPFIX 35-5 end brackets, lettering field size: 20 x 8 mm							
	gray	KLM 4	0811970	100			
Terminal strip markers , for strip marking, adjustable height, for use with E/UK, E/NS 35 N or CLIPFIX 35 end brackets, lettering field size: 44 x 7 mm							
	transparent				KLM-A	1004348	100
Accessories		Accessories			Accessories		
Insert strips for laser printers , DIN A4, perforated							
1 sheet = 136 labels, lettering field size: 44 x 7 mm	white				ESL 44X7	0808244	10
UniSheet insert labels for thermal transfer printers							
1 UniSheet = 40 labels, lettering field size: 44 x 7 mm	white				US-EMP (44X7)	0829438	10
UniSheet, self-adhesive labels for thermal transfer printers							
1 UniSheet = 64 labels, lettering field size: 20 x 8 mm	white	US-EML (20X8)	0800458	10			



Component mounting

Marking for terminal strips



For mounting on end bracket

General data

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	

Technical data

PA
V2
-40 ... 100
Free from silicone and halogen

Description

Terminal strip marker carriers, for marking groups of terminals, for E/UK end bracket, lettering field size: 40 x 17 mm
Hood material: PE

gray

Terminal strip marker carrier, for marking groups of terminals, for mounting on NS 32... or NS 35... DIN rail, lettering field size: 40 x 17 mm
Hood material: PE

gray

Terminal strip marker carrier, for marking groups of terminals, for mounting on NS 32... or NS 35... DIN rail, lettering field size: 60 x 10 mm
Hood material: PE

gray

Terminal strip marker carrier, for marking groups of terminals, for mounting on NS 32 or NS 35/7,5, lettering field size: 44 x 7 mm
Hood material: PE

gray

Ordering data

Type	Order No.	Pcs./Pkt.
UBE	0800310	10

Accessories

Insert strip for thermal transfer printer, for terminal strip marker UBE/D or UBE

1 roll = 2300 markers	white
1 roll = 500 labels,	white
lettering field size: 60 x 10 mm	
1 roll = 500 labels,	white
lettering field size: 44 x 7 mm	

Insert strips for laser printers, DIN A4, perforated

1 sheet = 56 labels	white
1 sheet = 72 labels,	white
lettering field size: 60 x 10 mm	
1 sheet = 136 labels,	white
lettering field size: 44 x 7 mm	

UniSheet insert labels for thermal transfer printers

1 UniSheet = 16 labels	white
1 UniSheet = 40 labels,	white
lettering field size: 44 x 7 mm	

EMT (40X17)R	0817293	1
ESL 40X17	0808095	10
US-EMP (40X17)	0829437	10



For mounting on a DIN rail



For DIN rail mounting



For mounting on a DIN rail

Technical data

PA
V2
-40 ... 100
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.

UBE/D	0800307	10

Accessories

EMT (40X17)R	0817293	1

ESL 40X17	0808095	10

US-EMP (40X17)	0829437	10

Technical data

PA
V0
-40 ... 100
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.

UBE/D (60X10)	0803719	50

Accessories

EMT (60X10)R	0804288	1

ESL 60X10	0804287	10

Technical data

PA
V0
-40 ... 100
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs./Pkt.

UBE/D N+C	0803122	10

Accessories

EMT (44X7)R	0819275	1

ESL 44X7	0808244	10

US-EMP (44X7)	0829438	10

Installation and mounting material – CABINET add-on

Component mounting

Angled brackets for fixing DIN rails

- The BG/S brackets can be used to fix DIN rails at a distance from the mounting surface
- 30° tilt angle



Angled bracket, low



Angled bracket, tall

Dimensions	
	[mm]
General data	
Material	
Description	Color
Angled bracket, for fixing DIN rails at an angle of 30°, with M6 screw, galvanized and thick layer passivated	
	silver
Angled bracket, with DIN rail limit stop, for fixing DIN rails at an angle of 30°, with M6 screw, galvanized and thick layer passivated	
	silver

Technical data		
Width	Length	Height
19.7	87	35.4
Steel		
Ordering data		
Type	Order No.	Pcs./Pkt.
BG/S	1201086	10
BG/SA	1201604	10

Technical data		
Width	Length	Height
20	84	46
Steel		
Ordering data		
Type	Order No.	Pcs./Pkt.
BG/SH	1201099	10
BG/SHA	1201594	10

Flat brackets for fixing DIN rails

- The BG/F brackets can be used to fix DIN rails at a distance from the mounting surface



Flat brackets with lugs



Flat brackets without lugs

Dimensions	
	[mm]
General data	
Material	
Description	Color
Flat bracket, for fixing DIN rails 12 mm above the base, with M6 screw, galvanized and thick layer passivated	
	silver
Flat bracket, is screwed with DIN rails 15 mm above the base, fixing hole: 6.5 mm Ø, galvanized and thick layer passivated	
	silver

Technical data		
Width	Length	Height
20	84	12
Steel		
Ordering data		
Type	Order No.	Pcs./Pkt.
BG/F	1201060	10

Technical data		
Width	Length	Height
20	37	15
Steel		
Ordering data		
Type	Order No.	Pcs./Pkt.
BG/F 1	1201112	10

Universal adapters

- The universal adapters are used to secure and hold electrical or electronic switching devices
- They allow fully insulated mounting of components or DIN rails



For NS 35 and NS 32 DIN rails



For NS 32 DIN rail

Dimensions	
	[mm]
General data	
Material	PA
Flammability rating in accordance with UL 94	V2
Ordering data	
Type	Color
Universal rail adapter , for NS 35... or NS 32... DIN rail, for accommodating switching devices, 10 mm wide	
For M3 screws	gray
For M3 screws	black
For M5 screws	gray
Universal rail adapter , for NS 32... DIN rail	
	white

Technical data		
Width	Length	Height
10	42.6	19
Ordering data		
Type	Order No.	Pcs./Pkt.
USA 10	1201578	10
USA 10 BK	1200993	10
USA 10/4,6	1202713	10

Technical data		
Width	Length	Height
Ordering data		
Type	Order No.	Pcs./Pkt.
FIXOCAP F	1201471	100

Mounting accessories

- The support bracket can be used for fully insulated DIN rail support
- The NS 35/... CAP end caps can be attached to the ends of NS 35/7,5 and NS 35/15 DIN rails



Support bracket, insulated



Protective caps for DIN rails

Dimensions	
	[mm]
General data	
Material	PA
Flammability rating in accordance with UL 94	V2
Ordering data	
Type	Color
Support bracket , for fixing DIN rails 21 mm above the mounting surface, with M6 screw, countersunk fixing hole 6.1 mm Ø, can also be used for protective insulation of terminal strips	
	gray
DIN rail end cap	
for NS 35/7,5 DIN rail	gray
for NS 35/15 DIN rail	gray

Technical data		
Width	Length	Height
38	35	21
Ordering data		
Type	Order No.	Pcs./Pkt.
AB/NS	1201141	10

Technical data		
Width	Length	Height
7	37.5	9
Ordering data		
Type	Order No.	Pcs./Pkt.
NS 35/ 7,5 CAP	1206560	100
NS 35/15 CAP	1206573	100

Component mounting

Cover profiles

- Covering hoods and profiles provide protection against unauthorized actuation of terminal strips
- All covering hoods are closed on all sides
- Specially adjusted contours enable a tight fit to the respective terminal block types, e.g., the UTME test disconnect terminal blocks



Covering hood, can be sealed



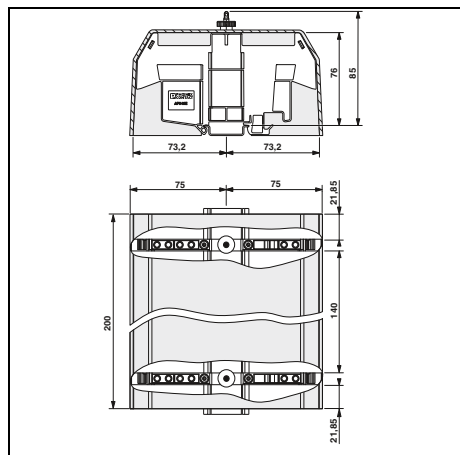
Cover profile

Notes:
¹⁾ Please state the length required in cm when ordering. Accuracy 1 mm.

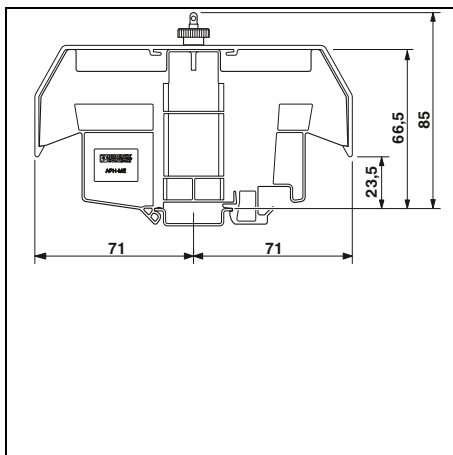
ERC

General data			Technical data			Technical data		
Material			PC			PVC		
Flammability rating in accordance with UL 94			V2			V0		
Temperature range		[°C]	-			-15 ... 65		
Ordering data			Ordering data			Ordering data		
Description	Color		Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Covering hood								
	transparent		AH-ME	3240265	5			
Dimensions: 145 x 150 x 80 mm	transparent		AH-ME 145X150X80	3240266	5			
Dimensions: 115 x 150 x 80 mm	transparent		AH-ME 115X150X80	3240267	5			
Dimensions: 200 x 150 x 78 mm	transparent		AH-ME 200X150X78	3240268	5			
Cover profile, supply length 1 m								
	transparent					AP-ME METER	3034361	10
Cover profile, please specify the desired length in cm								
	transparent					AP-ME CM	3034345	1
Cover profile, for terminal strips, can be marked using an AP-ES insert strip. Position a cover profile carrier at the ends and at intervals of around 40 cm, length supplied: 1 m								
	transparent					AP 2 METER	5022627	1
Cover profile, for terminal strips, can be marked using an AP-ES insert strip. Position a cover profile carrier at the ends and at intervals of around 40 cm, maximum length supplied: 1 m¹⁾								
Can be snapped onto cover profile carrier AP 2-TU	transparent					AP 2 CM	5022889	1
Cover profile, for covering terminal strips, snaps onto cover profile carrier AP 3-TU, AP 3-TNS 35, can be marked with insert strip AP-ES. A cover profile carrier should be positioned at the ends and at intervals of around 40 cm. Length supplied: 1 m								
	transparent					AP 3 METER	5022643	1
Cover profile, for covering terminal strips, snaps onto cover profile carrier AP 3-TU, AP 3-TNS 35, can be marked with insert strip AP-ES. Position a cover profile carrier at the ends and at intervals of around 40 cm, maximum length supplied: 1 m¹⁾								
Can be snapped onto AP 3-TU or AP 3-TNS 35	transparent					AP 3 CM	5022876	1
U-shaped cover, Inner dimensions: 100 x 38 mm, 2 mm thick, maximum supply length: 2.05 m, also required: 2 end brackets E/UK and 2 cover holders VAH, made acc. to length specifications¹⁾								
	transparent					A/U CM	5021110	1

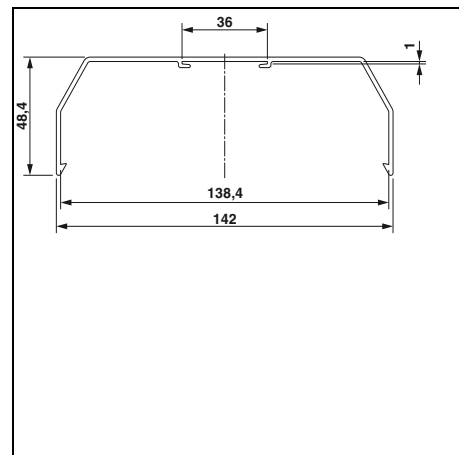
Dimensional drawings



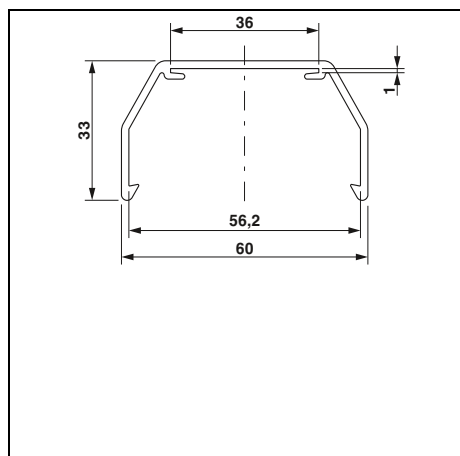
AH-ME



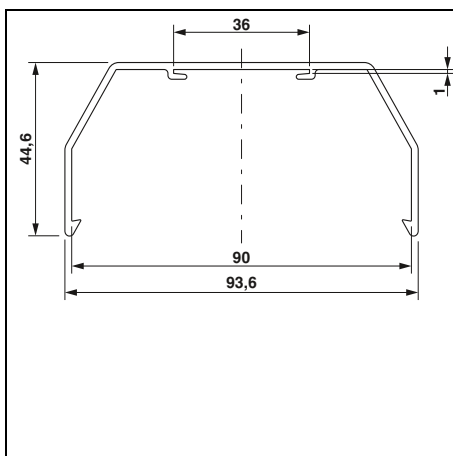
AP-ME



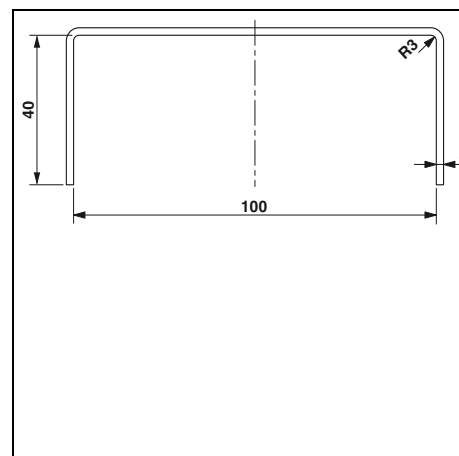
AP-ME CM



AP 2 METER



AP 3 METER



A/U CM

Component mounting

Cover profiles

- The cover profile carriers differ in form and function
- Some profile carriers function as a dividing plate or a sealable dividing plate
- The APH-ME profile carrier e.g., facilities retaining the FBS ...-8 plug-in bridges and is optionally sealable
- The VAH mounting adapter can be latched onto the corresponding end brackets at a certain height



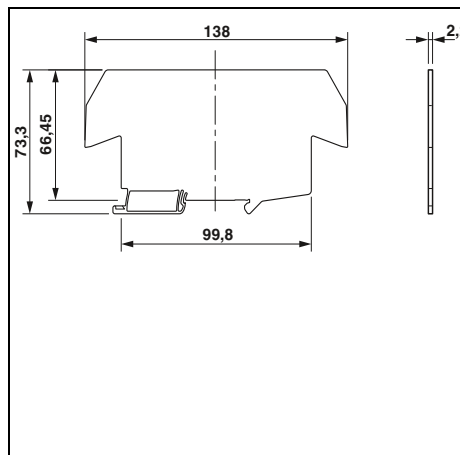
Cover profile carrier



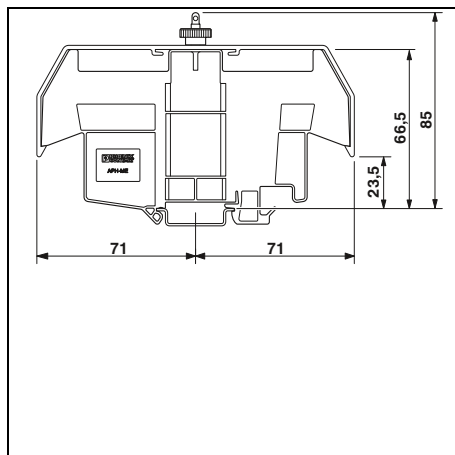
Cover bracket,
for latching in the end bracket

		Technical data			Technical data		
General data							
Material		PA			PA		
Flammability rating in accordance with UL 94		V0			V2		
Temperature range	[°C]	-			-		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.
Cover profile carrier , for AP-ME		APT-ME	3034358	10			
Cover profile carrier , sealable, for AP-ME cover profile	gray	APH-ME	3034374	10			
Cover profile carrier , for mounting on NS 32 or NS 35/7,5 DIN rail, for fixing of the AP cover profile, 2.1 mm thick	gray	AP 2-TU	5022630	50			
Cover profile carrier , can be sealed, for mounting on NS 32 or NS 35/7,5 DIN rail, for fixing the AP 2 cover profile	gray	AP 2-TU KS	3034372	10			
Cover profile carrier , for mounting on NS 32 or NS 35/7.5 DIN rail, for fixing the cover profile AP, 2 mm thick, material: PA	gray	AP 3-TU	5022656	50			
Sealable cover profile carrier , for mounting on NS 35 DIN rail and for fixing the AP 3 cover profile, with plastic M5 knurled nut, space required: 13 mm	gray	AP 3-TNS 35	5022672	10			
Sealable cover profile carrier , for mounting on NS 32 DIN rail, for fixing the AP 3 cover profile, with plastic M5 knurled nut, space required: 13 mm	gray	AP 3-TNS 32	5022669	10			
Cover profile carrier , can be sealed, for mounting on NS 32 or NS 35/7,5 DIN rail, for fixing the AP 3 cover profile	gray	AP 3-TU KS	3034373	10			
Adjustable cover holder , for mounting covers (up to 3 mm thick), additional requirements: One end bracket E/UK or CLIPFIX 35, material PA	gray				VAH	1201468	10
		Accessories			Accessories		
Insert strips , for group marking, for sliding into the cover profile AP 2 and AP 3, cardboard, lettering field: 35 x 500 mm	white	AP-ES	5022685	10			
End bracket , for screwing on, for NS 35 and NS 32, can be marked with ZB 6, KLM, KLM-A and UBE	gray				E/UK	1201442	50
End bracket , for latching the VAH	gray				E/UK-NS 35	1202577	50
End bracket , for snapping onto NS 35, 9.5 mm wide, can be marked with ZB 6, ZB 8/27, KLM...	gray				CLIPFIX 35	3022218	50

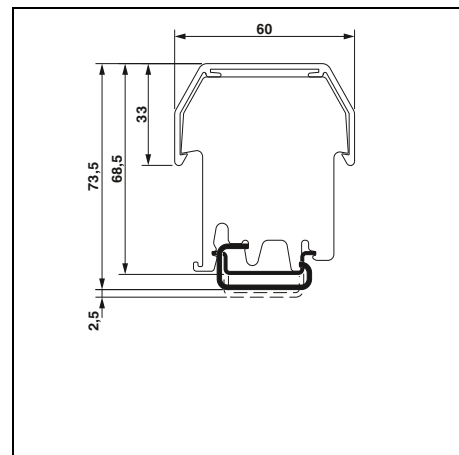
Dimensional drawings



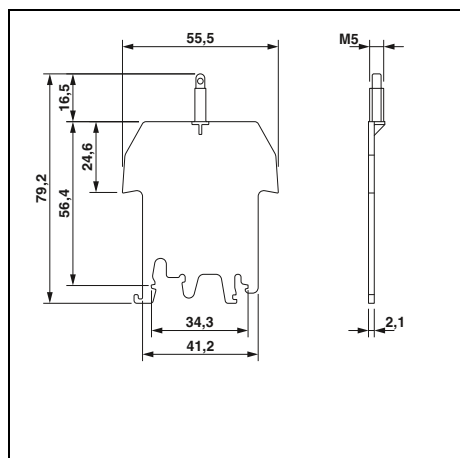
APT-ME



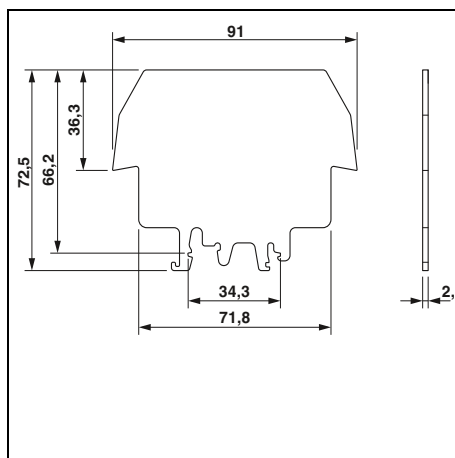
APH-ME



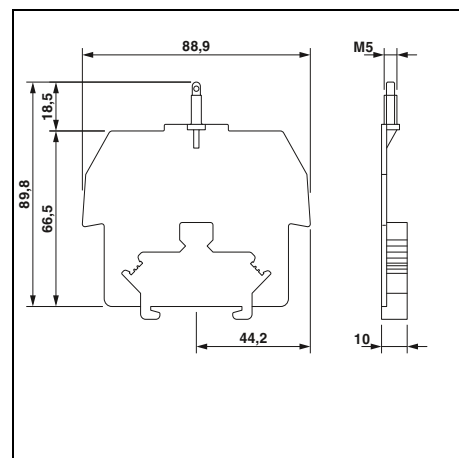
AP 2-TU



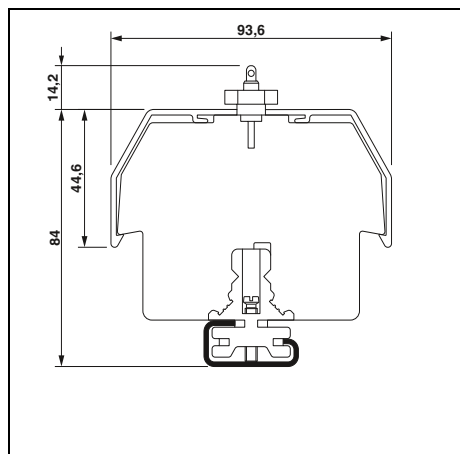
AP 2-TU KS



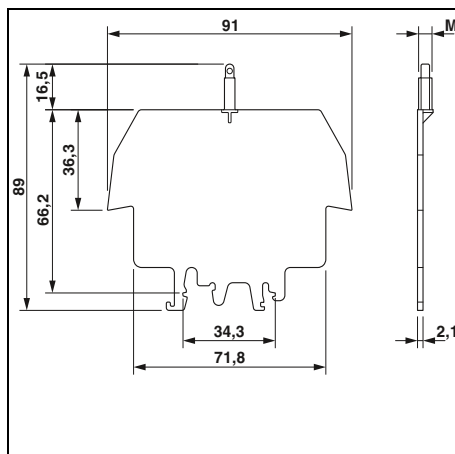
AP 3-TU



AP 3-TNS 35



AP 3-TNS 32



AP 3-TU KS

Component mounting

Cover profiles for UK terminal blocks



- Covering of live parts
- Protection against accidental actuation of terminal points or disconnect terminal blocks
- Protection against environmental influences
- Can be marked



Single cover for UK terminal blocks

General data		Technical data		
Material		ABS		
Flammability rating in accordance with UL 94		HB		
Temperature range		-40 ... 80		
Components		Free from silicone and halogen		
		Ordering data		
Description	Color	Type	Order No.	Pcs./Pkt.
Single cover, for covering the UK 2,5 N terminal block, snap fit	transparent	EA 4	0805360	50
Single cover, for covering the UK 3 N, UK 5 N, UK 6 N, UK 4-FSR, UK 4FS/FS,UK 4-LOER terminal blocks, snap fit	transparent	EA 5	1024014	100
Single cover, for covering the UK 16 N terminal block, snap fit	transparent	EA 7	1024250	100
Single cover, for covering the UK 3 N, UK 5 N, UK 6 N, UK 4-FSR, UK 4FS/FS,UK 4-LOER terminal blocks, snap fit, black print: lightning flash	yellow	EA 5-WS	1024085	100
Single cover, for covering the UK 35, UIK 35 terminal block, cannot be marked, snap fit	transparent	EA 11	1024263	50

Cover profiles

- Covering of live parts
- Protection against accidental actuation of terminal points or disconnect terminal blocks
- Protection against environmental influences
- Can be marked



Cover profile, hinged for DIN rail mounting

General data

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	

Technical data

Polycarbonate PC
V2
-40 ... 115
Free from silicone and halogen

Description	Color

Holding profile, is snapped into the cover holder APK-TU, with groove for Zack marker strip **ZB 5** up to **ZB 10**, length: 2 m

transparent

Holding profile, is snapped into the cover holder APK-TU, with groove for Zack marker strip **ZB 5** up to **ZB 10**, length: 2 m

gray

Cover profile holder, 10 mm width, for mounting on NS 32 or NS 35/7,5, for fixing the holding profile APK-HP, can be marked with Zack marker strip **ZB 10**, **material**: PA

gray

Ordering data

Type	Order No.	Pcs./Pkt.
APK 1	5022795	10
APK-HP 2 METER	5022818	2
APK-TU	5022805	10

Busbars

Neutral busbar



3 x 10 mm



6 x 6 mm

Dimensions	
	[mm]
General data	
Material	
Description	Color
PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A	
	silver
PEN conductor busbar, in accordance with DIN VDE 0611-4, 6 x 6 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A	
	silver

Technical data		
Width	Length	Height
10	1000	3
Copper		
Ordering data		
Type	Order No.	Pcs./Pkt.
NLS-CU 3/10 SN 1000MM	0402174	10

Technical data		
Width	Length	Height
6	1000	6
Copper		
Ordering data		
Type	Order No.	Pcs./Pkt.
NLS-CU 6/ 6 SN 1000MM	0402161	10

Supports for neutral busbars

Three support brackets can be supplied as support for busbars:

- The AB/SS for one rail
- The AB 2/SS for offset arrangement of neutral and (PE) busbars
- The lower ABN 2/SS

Notes:
For dimensional drawings, see phoenixcontact.net/products



Support bracket
for SK shield connection clamps



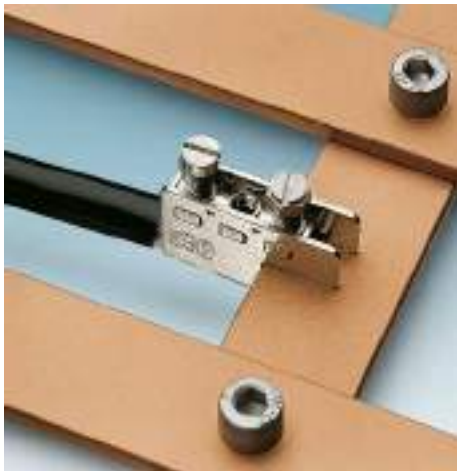
Support bracket,
multi-level, insulated

Dimensions	
	[mm]
General data	
Material	
Flammability rating in accordance with UL 94	
Description	Color
Support bracket, insulated, with retaining screw, for 3 x 10 mm or 6 x 6 mm busbars	
	gray
With two retaining screws	gray
Double support bracket, made from insulation material, can be optionally used for either 3 x 10 mm or 6 x 6 mm neutral busbar	
Height 48 mm	gray
Height 36.8 mm	gray
Triple support bracket, made from insulation material	
	gray

Technical data		
Width	Length	Height
19.4	23.4	21.7
PA V0		
Ordering data		
Type	Order No.	Pcs./Pkt.
AB/SS	0404428	10
AB/SS-EX	0404415	10

Technical data		
Width	Length	Height
10	42	48
PA V0		
Ordering data		
Type	Order No.	Pcs./Pkt.
AB2/SS	0404431	10
ABN 2/SS	0404460	10
AB3/SS	0800086	10

Branch terminals



- A branch of flat copper busbars often has to be produced in switch systems
- This can be done easily with the branch terminal because the terminal can be attached and firmly clamped anywhere on a copper rail (up to max. 5 mm thick) later on



35 (35) mm², 125 A, branch terminal

ERC

Dimensions	
	[mm]
Maximum electrical data	
Rated data	
Nominal current / cross section	[A] / [mm²]
Connection capacity	
1 conductor	[mm²]
2 conductors (of the same type)	[mm²]
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]

Technical data				
Width	Length	Height		
12	40	36		
I_{max} [A]	max. Ø [mm²]	AWG (UL)		
125	0.75 - 35	-		
IEC	UL / CUL	CSA	IEC/ EN 60079-7	
125 / 35	-	-	-	
rigid	flexible	Ferrule		
		without/with plastic sleeve		
0.75 - 35	0.75 - 35	0.75 - 35	0.75 - 35	
0.75 - 10	0.75 - 10	0.75 - 10	-	

Description	Color
Branch terminal, for connection to copper rails up to 5 mm thick	aluminum color

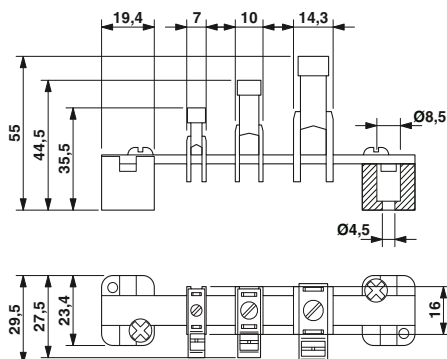
Ordering data			
Type	I_{max}	Order No.	Pcs./Pkt.
AZK 35		0702997	10

Busbars

L/N/PE connection terminal blocks



- In electrical systems subject to the setup requirements of DIN VDE 0100 or IEC 60204-1 / EN 60204-1 / VDE 0113-1, N, PE or phase conductor L are often connected to central busbars. This requires the conductor and/or terminal block to be clearly marked for the corresponding circuit. The connection terminal blocks satisfy these requirements:
- Thanks to the individual marking of each terminal block
- By their blue, green-yellow or black colored housings
- Large-surface marking possible with ZB, UC-TM, UCT-TM



4 (6) mm², 41 A,
connection terminal blocks



Dimensions	
	[mm]
Maximum electrical data	
Rated data	
Rated voltage	[V]
Nominal current / cross section	[A] / [mm²]
Rated cross section	[mm²]
Cross section range	AWG
Connection capacity	
1 conductor	[mm²]
2 conductors (of the same type)	[mm²]
2 flexible conductors with TWIN ferrule	[mm²]
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Insulating material	
Flammability rating in accordance with UL 94	

Technical data			
Width	Length	Height	
7	23.4	24	
I _{max} [A]	U _{max} [V]	max. Ø [mm²]	AWG (UL)
41	300	0.5 - 6	22-12
IEC	UL / CUL	CSA	IEC/ EN 60079-7
300	300	-	-
41 / 4	20 / -	20 / -	-
4	-	-	-
20 - 10	22-12	22-12	-
rigid	flexible	Ferrule	
		without/with plastic sleeve	
0.5 - 6	0.5 - 4	0.5 - 6	0.5 - 6
0.5 - 2.5	0.5 - 2.5	0.5 - 2.5	-
-	-	-	0.5 - 2.5
16			
M4			
1.5 - 1.8			
PA			
V2			

Description	Color
Connection terminal block, steel, pushed onto NLS neutral busbar, can be marked with ZB ...	black
Up to 6 mm² rigid, 7 mm wide	green-yellow
	blue
	red
	green
	yellow
With Ex approval	black
	green-yellow
	blue
	silver
Without insulating cap	black
Connection terminal block, steel, pushed onto NLS neutral busbar, can be marked with ZB ...	black
Up to 16 mm² rigid, 10 mm wide	green-yellow
	blue
	gray
	red
	green
	yellow
	silver
Without insulating cap	black
Connection terminal block, steel, pushed onto NLS neutral busbar, can be marked with ZB ...	black
Up to 35 mm² rigid, 14.3 mm wide	green-yellow
	blue
	red
	green
	yellow
Without insulating cap	silver



16 (16) mm², 76 A,
connection terminal blocks



35 (35) mm², 125 A,
connection terminal blocks



Technical data			
Width	Length	Height	
9.8	23.4	32	
I_{max} [A]	U_{max} [V]	max. Ø [mm²]	AWG (UL)
76	300	1.5 - 16	18-6
IEC	UL / CUL	CSA	IEC / EN 60079-7
300	300	-	-
76 / 16	50 / -	65 / -	-
16	-	-	-
16 - 6	18-6	18-6	-
rigid	flexible	Ferrule without/with plastic sleeve	
1.5 - 16	1.5 - 16	1.5 - 16	1.5 - 16
1.5 - 6	1.5 - 6	1.5 - 6	-
-	-	-	1.5 - 10
16			
M5			
2.5 - 3			
PA			
V2			

Technical data			
Width	Length	Height	
14.3	27	40	
I_{max} [A]	U_{max} [V]	max. Ø [mm²]	AWG (UL)
125	300	2.5 - 35	18-2
IEC / EN	UL / CUL	CSA	IEC / EN 60079-7
300	300	-	-
125 / 35	115 / -	135 / -	-
35	-	-	-
14 - 2	18-2	18-2	-
rigid	flexible	Ferrule without/with plastic sleeve	
2.5 - 35	2.5 - 35	2.5 - 35	2.5 - 35
1.5 - 16	1.5 - 16	1.5 - 16	-
-	-	-	1.5 - 10
16			
M6			
3.2 - 3.7			
PA			
V2			

Ordering data			
Type	I_{max}	Order No.	Pcs./Pkt.
AKG 16 BK		0423030	50
AKG 16 GNYE		0423027	50
AKG 16 BU		0423014	50
AKG 16 GY		0423043	50
AKG 16 RD		3062951	50
AKG 16 GN		3062964	50
AKG 16 YE		3062977	50
AK 16		0404033	50

Ordering data			
Type	I_{max}	Order No.	Pcs./Pkt.
AKG 35 BK		0424039	50
AKG 35 GNYE		0424026	50
AKG 35 BU		0424013	50
AKG 35 RD		3062980	50
AKG 35 GN		3062993	50
AKG 35 YE		3063002	50
AK 35		0404046	50

Connection terminal blocks and control cabinet sockets

Europe connectors



- The Europe connectors for conductors with a cross section of up to 16 mm² feature wire protection
- Particularly suitable for finely stranded conductors, including those without ferrules
- Insulating housing made from halogen-free polyamide
- High-quality metal parts with corrosion-resistant surfaces
- Secure fixing in housing

Notes:
For more variants, see phoenixcontact.net/products .
For important information regarding proper installation, visit phoenixcontact.net/products .



2.5 (2.5) mm², 24 A, 12-pos.



Dimensions	
	[mm]
Maximum electrical data	
Rated data	
Rated voltage	[V]
Nominal current / cross section	[A] / [mm ²]
Rated cross section	[mm ²]
Cross section range	AWG
Connection capacity	
1 conductor	[mm ²]
2 conductors (of the same type)	[mm ²]
2 flexible conductors with TWIN ferrule	[mm ²]
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Insulating material	
Flammability rating in accordance with UL 94	

Technical data			
Width	Length	Height	
16.2	93.6	13.4	
I _{max} [A]	U _{max} [V]	max. Ø [mm²]	AWG (UL)
24	450	0.5 - 2.5	22-12
IEC	UL / CUL	CSA	IEC/ EN 60079-7
450	300	-	-
24 / 2.5	20 / -	-	-
2.5	-	-	-
20 - 14	22-12	-	-
rigid	flexible	Ferrule without/with plastic sleeve	
0.5 - 2.5	0.5 - 2.5	0.5 - 1.5	0.5 - 1
0.5 - 0.75	0.5 - 0.75	-	-
-	-	-	0.5

Description	Color
Europe connector, 12-pos., with wire protection	transparent

Ordering data		
Type	Order No.	Pcs./Pkt.
EC 2,5 P TR	3240167	10



4 (4) mm², 32 A, 12-pos.



6 (6) mm², 41 A, 12-pos.



16 (16) mm², 76 A, 12-pos.



Technical data			
Width	Length	Height	
18.6	117	15	
I _{max} [A]	U _{max} [V]	max. Ø [mm²]	AWG (UL)
32	450	0.75 - 4	20-10
IEC	UL / CUL	CSA	IEC/ EN 60079-7
450	300	-	-
32 / 4	30 / -	-	-
4	-	-	-
18 - 12	20-10	-	-
rigid	flexible	Ferrule without/with plastic sleeve	
0.75 - 4	0.75 - 4	0.5 - 2.5	0.5 - 2.5
0.75 - 1.5	0.75 - 1	0.5 - 1	-
-	-	-	0.5 - 1
6			
M3			
0.5 - 0.6			
PA			
V2			



Technical data			
Width	Length	Height	
22.2	132.7	17.3	
I _{max} [A]	U _{max} [V]	max. Ø [mm²]	AWG (UL)
41	450	1 - 6	14-8
IEC	UL / CUL	CSA	IEC/ EN 60079-7
450	300	-	-
41 / 6	50 / -	-	-
6	-	-	-
16 - 10	14-8	-	-
rigid	flexible	Ferrule without/with plastic sleeve	
1 - 6	1 - 6	0.75 - 4	0.75 - 4
0.75 - 2.5	0.75 - 1.5	0.75 - 1.5	-
-	-	-	0.5 - 1
7			
M3,5			
0.8 - 1			
PA			
V2			



Technical data			
Width	Length	Height	
25.2	173.9	20.8	
I _{max} [A]	U _{max} [V]	max. Ø [mm²]	AWG (UL)
76	450	6 - 16	10-6
IEC	UL / CUL	CSA	IEC/ EN 60079-7
450	300	-	-
76 / 16	55 / -	-	-
16	-	-	-
10 - 6	10-6	-	-
rigid	flexible	Ferrule without/with plastic sleeve	
6 - 16	6 - 16	1.5 - 10	1.5 - 10
1.5 - 4	2.5 - 4	1.5 - 2.5	-
-	-	-	0.75 - 2.5
8			
M4			
1.2 - 1.5			
PA			
V2			

Ordering data		
Type	Order No.	Pcs./Pkt.
EC 4 P TR	3240171	10

Ordering data		
Type	Order No.	Pcs./Pkt.
EC 6 P TR	3240175	10

Ordering data		
Type	Order No.	Pcs./Pkt.
EC 16 P TR	3240182	10

Connection terminal blocks and control cabinet sockets

Europe connectors

- These Europe connectors are suitable for rigid and flexible conductors with a max. cross section of 25 mm²
- The prismatic clamping part facilitates conductor entry and secure contact can be established even in the case of conductors without ferrules
- Individual positions can be separated through a simple rotary motion, due to the polypropylene insulating housing
- The high-quality metal parts, which feature corrosion-resistant surfaces, are fixed securely in the housing



4 (4) mm², 32 A, 12-pos.



6 (6) mm², 41 A, 12-pos.

ERC

ERC

		Technical data				Technical data			
Dimensions		Width	Length	Height		Width	Length	Height	
		16.6	94.9	13		18.9	116.5	14.9	
Maximum electrical data		I _{max.} [A]	U _{max.} [V]	max. Ø [mm ²] AWG (UL)		I _{max.} [A]	U _{max.} [V]	max. Ø [mm ²] AWG (UL)	
		32	450	0.5 - 4 -		41	450	0.75 - 6 -	
Rated data		IEC	UL / CUL	CSA	IEC/ EN 60079-7	IEC	UL / CUL	CSA	IEC/ EN 60079-7
Rated voltage		[V]	450	-	-	450	-	-	-
Nominal current / cross section		[A] / [mm ²]	32 / 4	-	-	41 / 6	-	-	-
Rated cross section		[mm ²]	4	-	-	6	-	-	-
Cross section range		AWG	20 - 12	-	-	18 - 10	-	-	-
Connection capacity		rigid	flexible	Ferrule without/with plastic sleeve		rigid	flexible	Ferrule without/with plastic sleeve	
1 conductor		[mm ²]	0.5 - 4	0.5 - 4	0.75 - 2.5 0.75 - 2.5	0.75 - 6	0.75 - 6	0.75 - 4	0.75 - 2.5
2 conductors (of the same type)		[mm ²]	0.5 - 1	- 1	- -	0.75 - 1.5	0.75 - 1.5	0.5 - 1	-
2 flexible conductors with TWIN ferrule		[mm ²]	-	-	- 0.5	-	-	-	0.5 - 1
General data									
Stripping length		[mm]	5			6			
Screw thread			M2,6			M3			
Tightening torque		[Nm]	0.4 - 0.5			0.5 - 0.6			
Insulating material			PP			PP			
		Ordering data				Ordering data			
Description		Type	Order No.	Pcs./Pkt.		Type	Order No.	Pcs./Pkt.	
Europe connector, 12-pos.		EC 4	3240168	10		EC 6	3240172	10	
white		EC 4 BK	3240169	10		EC 6 BK	3240173	10	
black		EC 4 TR	3240170	10		EC 6 TR	3240174	10	
transparent									



10 (10) mm², 57 A, 12-pos.



16 (16) mm², 76 A, 12-pos.



25 (25) mm², 101 A, 12-pos.

ERC

Technical data			
Width	Length	Height	
17.3	133.8	23.4	
I _{max} [A]	U _{max} [V]	max. Ø [mm²]	AWG (UL)
57	450	1 - 10	-
IEC	UL / CUL	CSA	IEC/ EN 60079-7
450	-	-	-
57 / 10	-	-	-
10	-	-	-
16 - 8	-	-	-
rigid	flexible	Ferrule without/with plastic sleeve	
1 - 10	1 - 10	1.5 - 6	1.5 - 4
1 - 2.5	1.5 - 2.5	0.75 - 1.5	-
-	-	-	0.5 - 1.5
7			
M3,5			
0.8 - 1			
PP			
Ordering data			
Type	Order No.	Pcs./Pkt.	
EC 10	3240176	10	
EC 10 BK	3240177	10	
EC 10 TR	3240178	10	

ERC

Technical data			
Width	Length	Height	
20.7	174.5	25	
I _{max} [A]	U _{max} [V]	max. Ø [mm²]	AWG (UL)
76	450	1.5 - 16	-
IEC	UL / CUL	CSA	IEC/ EN 60079-7
450	-	-	-
76 / 16	-	-	-
16	-	-	-
14 - 6	-	-	-
rigid	flexible	Ferrule without/with plastic sleeve	
1.5 - 16	2.5 - 16	2.5 - 10	2.5 - 10
2.5 - 4	2.5 - 4	1.5 - 2.5	-
-	-	-	1 - 4
8			
M4			
1.2 - 1.5			
PP			
Ordering data			
Type	Order No.	Pcs./Pkt.	
EC 16	3240179	10	
EC 16 BK	3240180	10	
EC 16 TR	3240181	10	

ERC

Technical data			
Width	Length	Height	
30	187.3	28	
I _{max} [A]	U _{max} [V]	max. Ø [mm²]	AWG (UL)
101	750	10 - 25	-
IEC	UL / CUL	CSA	IEC/ EN 60079-7
750	-	-	-
101 / 25	-	-	-
25	-	-	-
8 - 4	-	-	-
rigid	flexible	Ferrule without/with plastic sleeve	
10 - 25	10 - 25	4 - 16	4 - 10
4 - 6	4 - 6	2.5 - 4	-
-	-	-	1.5 - 6
9			
M5			
2 - 3			
PP			
Ordering data			
Type	Order No.	Pcs./Pkt.	
EC 25	3240183	10	
EC 25 BK	3240184	10	
EC 25 TR	3240185	10	

Junction box connectors



- Thanks to their Push-in connection technology, the three junction box connectors available from Phoenix Contact enable tool-free wiring in a restricted space
- Rigid solid conductors with a cross section range of 0.5 mm² to 2.5 mm² can be connected
- Rigid multi-stranded conductors (7 litz wires) with a cross section range of 1.5 mm² to 2.5 mm² can be safely connected
- Different cross sections are wired together in a junction box connector
- The transparent housing makes it easier to carry out a visual inspection of the terminal points, thereby increasing the safety of the wiring
- Integrated test openings enable the use of test devices once wiring has been completed



2.5 (2.5) mm², 24 A, 3-pos.

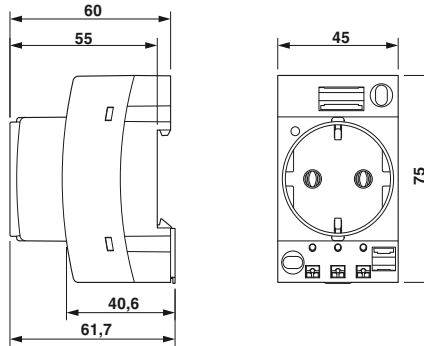


Dimensions	
	[mm]
Maximum electrical data	
Rated data	
Rated voltage	[V]
Nominal current / cross section	[A] / [mm ²]
Rated cross section	[mm ²]
Cross section range	AWG
Connection capacity	
1 conductor	[mm ²]
General data	
Stripping length	[mm]
Insulating material	
Flammability rating in accordance with UL 94	

Technical data				
Width	Length	Height		
17.2	15.6	8.9		
I _{max} [A]	U _{max} [V]	max. Ø [mm ²]	AWG (UL)	
24	450	0.5 - 2.5	-	
IEC	UL / CUL	CSA	IEC / EN 60079-7	
450	600	-	-	
24 / 2.5	12	-	-	
2.5	-	-	-	
20 - 14	20-16	-	-	
rigid		flexible	Ferrule without/with plastic sleeve	
0.5 - 2.5	-		0 - 0	-
Ordering data				
Type	Order No.		Pcs./Pkt.	
JBC 2,5/3	3240164		100	
JBC 2,5/5	3240165		100	
JBC 2,5/8	3240166		50	

Description	Color
Plug-in terminal block, 3-pos.	transparent
5-pos., width: 26 mm	transparent
8-pos., width: 39.2 mm	transparent

Control cabinet sockets



Sockets that can be mounted on DIN rails serve for easy connection of electrical auxiliary devices for assembly, testing, lighting, etc. They enable worldwide use in switchgear, control cabinets, and in simple sub-distributions. Worldwide use makes it essential to offer the sockets with pin connector patterns that are standard in each country, in accordance with the currently applicable standards and regulations. The mounting holes in the sockets mean that, in addition to mounting on a DIN rail in accordance with EN 60715, there is also the option of direct mounting in the service interface. The EO sockets are offered with both the proven screw connection, as well as the modern Push-in connection. The integrated functions such as LED, fuse, switch, circuit breaker or a combination of the functions with each other, offers a wide area of use.

Country-specific requirements for child-proofing are satisfied by the use of shutter systems. L1, N, and PE are arranged on one side of the socket in line with connections. The sockets are available as an individual or double version. The following pin connector patterns can be selected from the sockets:

- Type AB, type CF, type D, type E, type G, type I, type J, type K, type L, and type N
- Type E, type G, and type L are also supplied with an integrated shutter system
- The USA versions are offered with integrated circuit breaker in 15 A and 20 A
- Housing color: gray or green

With the VS-SI-xx / SI-xx mounting frame, the sockets can be used in various IP protection classes. For further information, visit phoenixcontact.net/products

Nominal voltage
Max. continuous current
General data
Dimensions
Connection data rigid / flexible / AWG
Degree of protection
Insulation material
Ambient temperature range
Standards/regulations
Flammability rating in accordance with UL 94

250 V AC (50 Hz)
16 A
EO-...
45 mm / 75 mm / 60 mm
0.2 - 4 mm² / 0.2 - 2.5 mm² / 24 - 12
IP20
PA
-20°C ... 60°C
VDE 0620-1
V0

Technical data

Ordering data

Description

Socket for the DIN rail, Push-in connection

Standard, gray
Standard, green
Standard, yellow
LED display, gray
LED display, green
LED display, yellow
LED display and fuse 5 x 20 mm, 6.3 A, gray
Circuit breaker 15 A, gray
LED display and fuse 5 x 20 mm, 6.3 A, green

Switch, gray
Switch, LED display, gray
Fuse 5 x 20 mm, 6.3 A, gray
Fuse 5 x 20 mm, 6.3 A, green
Double socket, LED display, gray
Double socket, LED display, green

Socket for the DIN rail, screw connection

Standard, gray
Standard, green
Standard, yellow
LED display, gray
LED display, green
LED display, yellow
LED display and fuse 5 x 20 mm, 6.3 A, gray

Circuit breaker 15 A, gray
Circuit breaker 20 A, gray
LED display and fuse 5 x 20 mm, 6.3 A, green

LED display, yellow
Switch, gray
Switch, LED display, gray
Fuse 5 x 20 mm, 6.3 A, gray
Fuse 5 x 20 mm, 6.3 A, green
Double socket, LED display, gray
Double socket, LED display, green

Type	Order No.	Pcs./Pkt.
EO-CF/PT	0804038	5
EO-CF/PT/GN	0804039	5
EO-CF/PT/YE	1068067	5
EO-CF/PT/LED	0804040	5
EO-CF/PT/LED/GN	0804041	5
EO-CF/PT/LED/YE	1068075	5
EO-CF/PT/LED/F	0804042	5
EO-CF/PT/LED/F/GN	0804043	5
EO-CF/PT/S	0804045	5
EO-CF/PT/LED/S	0804046	5
EO-CF/PT/F	0804047	5
EO-CF/PT/F/GN	0804048	5
EO-CF/PT/LED/DUO	0804049	2
EO-CF/PT/LED/DUO/GN	0804050	2
EO-CF/UT	0804024	5
EO-CF/UT/GN	0804025	5
EO-CF/UT/YE	1068038	5
EO-CF/UT/LED	0804026	5
EO-CF/UT/LED/GN	0804027	5
EO-CF/UT/LED/YE	1068028	5
EO-CF/UT/LED/F	0804029	5
EO-CF/UT/LED/F/GN	0804030	5
EO-CF/UT/LED/F/YE	1068030	5
EO-CF/UT/S	0804032	5
EO-CF/UT/LED/S	0804033	5
EO-CF/UT/F	0804034	5
EO-CF/UT/F/GN	0804035	5
EO-CF/UT/LED/DUO	0804036	2
EO-CF/UT/LED/DUO/GN	0804037	2

Notes:

For accessories, refer to page: 566.



Individual socket, USA,
Push-in connection



Double socket, USA, circuit breaker,
Push-in connection



Individual socket, India, Africa,
Push-in connection

Technical data			Technical data			Technical data								
125 V AC (60 Hz)			125 V AC (60 Hz)			250 V AC (50 Hz)								
15 A			15 A			6 A								
EO-...	EO-...DUO...		EO-...			EO-...	EO-...DUO...							
45 mm / 75 mm / 57.5 mm		90 mm / 75 mm / 57.5 mm	54 mm / 137 mm / 57.5 mm			45 mm / 75 mm / 57.5 mm		90 mm / 75 mm / 57.5 mm						
0.2 - 4 mm ² / 0.2 - 2.5 mm ² / 24 - 12			0.2 - 4 mm ² / 0.2 - 2.5 mm ² / 24 - 12			0.2 - 4 mm ² / 0.2 - 2.5 mm ² / 24 - 12								
IP20			IP20			IP20								
PA			PA			PA								
-20°C ... 60°C			-20°C ... 60°C			-20°C ... 60°C								
UL 508			UL 508			IS 1293								
V0			V2			V0								
Ordering data			Ordering data			Ordering data								
Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.	Type	Order No.	Pcs./Pkt.						
EO-AB/PT/15	0804165	5	EO-AB/PT/SH/LED/DUO/V/GFI/15	0804184	1	EO-D/PT	0804009	5						
EO-AB/PT/LED/15	0804168	5				EO-D/PT/GN	0804010	5						
EO-AB/PT/LED/F	0804171	5				EO-D/PT/LED	0804011	5						
						EO-D/PT/LED/GN	0804012	5						
EO-AB/PT/S/15	0804173	5				EO-D/PT/LED/DUO	0804013	2						
EO-AB/PT/LED/S/15	0804174	5												
EO-AB/PT/F	0804175	5												
EO-AB/PT/LED/DUO/15	0804177	2												
EO-AB/UT/15	0804152	5				EO-AB/UT/SH/LED/DUO/V/GFI/15 EO-AB/UT/SH/LED/DUO/V/GFI/20	0804179 0804181	1 1	EO-D/PT/LED/DUO/GN	0804014	2			
									EO-D/UT	0804000 0804001	5 5			
			EO-D/UT/LED	0804003 0804004	5 5									
												EO-D/UT/LED/F	0804157	5
EO-AB/UT/LED/S/15	0804163	2												
			EO-AB/UT/F	0804005 0804006 0804007 0804008	5 5 2 2									
									EO-AB/UT/LED/DUO/15	0804163	2			

Control cabinet sockets



To prevent unintentional contact with live components, the type E, G, and L sockets have integrated touch protection (child-proofing). This is enshrined in the respective country standards, such as NF C61-314.



Individual socket, Italy,
Push-in connection with shutter



Technical data

Nominal voltage	250 V AC (50 Hz)
Max. continuous current	16 A
General data	EO-...DUO...
Dimensions	W / H / D 45 mm / 75 mm / 57.5 mm 90 mm / 75 mm / 57.5 mm
Connection data rigid / flexible / AWG	0.2 - 4 mm ² / 0.2 - 2.5 mm ² / 24 - 12
Degree of protection	IP20
Insulation material	PA
Ambient temperature range	-20°C ... 60°C
Standards/regulations	CEI 23-50
Flammability rating in accordance with UL 94	V0

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Socket for the DIN rail, Push-in connection				
Standard, gray		EO-L/PT/SH	0804132	5
Standard, green		EO-L/PT/SH/GN	0804133	5
LED display, gray		EO-L/PT/SH/LED	0804134	5
LED display, green		EO-L/PT/SH/LED/GN	0804135	5
Double socket, LED display, gray		EO-L/PT/SH/LED/DUO	0804136	2
Double socket, LED display, green		EO-L/PT/SH/LED/DUO/GN	0804137	2
Switch, gray				
Switch, LED display, gray				
Socket for the DIN rail, screw connection				
Standard, gray		EO-L/UT/SH	0804126	5
Standard, green		EO-L/UT/SH/GN	0804127	5
LED display, gray		EO-L/UT/SH/LED	0804128	5
LED display, green		EO-L/UT/SH/LED/GN	0804129	5
Double socket, LED display, gray		EO-L/UT/SH/LED/DUO	0804130	2
Double socket, LED display, green		EO-L/UT/SH/LED/DUO/GN	0804131	2
LED display, yellow				
Switch, gray				
Switch, LED display, gray				

Accessories

UniCard , for terminal blocks with a flat marker groove, 64-section, 7 individual labels per strip, for a terminal block width of 8.2 mm				
	white	UC-TMF 8	0818137	10
UniCard , for terminal blocks with a flat marker groove, 32-section, 4 individual labels per strip, for a terminal block width of 16 mm				
	white	UC-TMF 16	0819262	10
Zack marker strip, flat, 10-section, without color print				
	white	ZBF 8:UNBEDRUCKT	0808781	10
Zack marker strip, flat, 5-section, without color print				
	white	ZBF 16:UNPRINTED	0827464	10



Individual socket, France,
Push-in connection with shutter



Individual socket, Great Britain,
Push-in connection with shutter



Technical data

250 V AC (50 Hz)
16 A
EO-...
45 mm / 75 mm / 57.5 mm
0.2 - 4 mm² / 0.2 - 2.5 mm² / 24 - 12
IP20
PA
-20°C ... 60°C
NF C61-314
V0

Technical data

250 V AC (50 Hz)
13 A
EO-...
45 mm / 75 mm / 57.5 mm
0.2 - 4 mm² / 0.2 - 2.5 mm² / 24 - 12
IP20
PA
-20°C ... 60°C
BS 1363-1/-2
V0

Ordering data

Type	Order No.	Pcs./Pkt.
EO-E/PT/SH	0804020	5
EO-E/PT/SH/GN	0804021	5
EO-E/PT/SH/LED	0804022	5
EO-E/PT/SH/LED/GN	0804023	5
EO-E/UT/SH	0804016	5
EO-E/UT/SH/GN	0804017	5
EO-E/UT/SH/LED	0804018	5
EO-E/UT/SH/LED/GN	0804019	5
EO-E/UT/SH/LED/YE	1068076	5

Ordering data

Type	Order No.	Pcs./Pkt.
EO-G/PT/SH	0804063	5
EO-G/PT/SH/GN	0804064	5
EO-G/PT/SH/LED	0804065	5
EO-G/PT/SH/LED/GN	0804066	5
EO-G/PT/SH/S	0804069	5
EO-G/PT/SH/LED/S	0804070	5
EO-G/UT/SH	0804051	5
EO-G/UT/SH/GN	0804052	5
EO-G/UT/SH/LED	0804053	5
EO-G/UT/SH/LED/GN	0804054	5
EO-G/UT/SH/S	0804058	5
EO-G/UT/SH/LED/S	0804059	5

Accessories

UC-TMF 8	0818137	10
UC-TMF 16	0819262	10
ZBF 8:UNBEDRUCKT	0808781	10
ZBF 16:UNPRINTED	0827464	10

Accessories

UC-TMF 8	0818137	10
UC-TMF 16	0819262	10
ZBF 8:UNBEDRUCKT	0808781	10
ZBF 16:UNPRINTED	0827464	10

Control cabinet sockets



The socket can be operated independently of the control cabinet circuit. In the event of an error, this enables the use of current-operated external measurement devices, that are called upon for fault analysis. An LED display advises of the voltage connected to the socket.



Individual socket, Brazil, South Africa,
Push-in connection

Nominal voltage
Max. continuous current
General data
Dimensions
Connection data rigid / flexible / AWG
Degree of protection
Insulation material
Ambient temperature range
Standards/regulations
Flammability rating in accordance with UL 94

250 V AC (50 Hz ... 60 Hz)

10 A

EO-... EO-...DUO...

45 mm / 75 mm / 57.5 mm 90 mm / 75 mm / 57.5 mm

0.2 - 4 mm² / 0.2 - 2.5 mm² / 24 - 12

IP20

PA

-20°C ... 60°C

NBR 14136

V0

Technical data

Ordering data

Description	Color
Socket for DIN rail, Push-in connection, 10 A	
Standard, gray	
Standard, green	
LED display, gray	
LED display, green	
Double socket, LED display, gray	
Double socket, LED display, green	
Socket for DIN rail, screw connection, 20 A	
Standard, gray	
Standard, green	
LED display, gray	
LED display, green	
Double socket, LED display, gray	
Double socket, LED display, green	

Type	Order No.	Pcs./Pkt.
EO-N/PT	0804146	5
EO-N/PT/GN	0804147	5
EO-N/PT/LED	0804148	5
EO-N/PT/LED/GN	0804149	5
EO-N/PT/LED/DUO	0804150	2
EO-N/PT/LED/DUO/GN	0804151	2
EO-N/UT	0804139	5
EO-N/UT/GN	0804140	5
EO-N/UT/LED	0804142	5
EO-N/UT/LED/GN	0804143	5
EO-N/UT/LED/DUO	0804144	2
EO-N/UT/LED/DUO/GN	0804145	2

Accessories

UniCard , for terminal blocks with a flat marker groove, 64-section, 7 individual labels per strip, for a terminal block width of 8.2 mm	
	white
UniCard , for terminal blocks with a flat marker groove, 32-section, 4 individual labels per strip, for a terminal block width of 16 mm	
	white
Zack marker strip, flat, 10-section, without color print	
	white
Zack marker strip, flat, 5-section, without color print	
	white

UC-TMF 8	0818137	10
UC-TMF 16	0819262	10
ZBF 8:UNBEDRUCKT	0808781	10
ZBF 16:UNPRINTED	0827464	10



Individual socket, China, Australia,
Push-in connection



Individual socket, Switzerland,
Push-in connection



Individual socket, Denmark,
Push-in connection



Technical data	
250 V AC (50 Hz)	
10 A	
EO-...	EO-...DUO...
45 mm / 75 mm / 57.5 mm	90 mm / 75 mm / 57.5 mm
0.2 - 4 mm² / 0.2 - 2.5 mm² / 24 - 12	
IP20	
PA	
-20°C ... 60°C	
GB 2099.1 and GB 1002	
V0	

Technical data		
250 V AC (50 Hz)		
16 A		
EO-...	EO-...DUO...	
45 mm / 75 mm / 57.5 mm	90 mm / 75 mm / 57.5 mm	
0.2 - 4 mm ² / 0.2 - 2.5 mm ² / 24 - 12		
IP20		
PA		
-20°C ... 60°C		
SEV 1011		
V0		

Technical data	
250 V AC (50 Hz)	
16 A	
EO-...	EO-...DUO...
45 mm / 75 mm / 57.5 mm	90 mm / 75 mm / 57.5 mm
0.2 - 4 mm ² / 0.2 - 2.5 mm ² / 24 - 12	
IP20	
PA	
-20°C ... 60°C	
SR 107-2-D1	
V0	

Ordering data		
Type	Order No.	Pcs./Pkt.
EO-I/UT	0804087	5
EO-I/UT/GN	0804088	5
EO-I/UT/LED	0804089	5
EO-I/UT/LED/GN	0804090	5
EO-I/UT/LED/DUO	0804091	2
EO-I/UT/LED/DUO/GN	0804092	2

Ordering data		
Type	Order No.	Pcs./Pkt.
EO-J/PT	0804105	5
EO-J/PT/GN	0804106	5
EO-J/PT/LED	0804107	5
EO-J/PT/LED/GN	0804108	5
EO-J/PT/LED/DUO	0804110	2
EO-J/PT/LED/DUO/GN	0804111	2
EO-J/UT	0804099	5
EO-J/UT/GN	0804100	5
EO-J/UT/LED	0804101	5
EO-J/UT/LED/GN	0804102	5
EO-J/UT/LED/DUO	0804103	2
EO-J/UT/LED/DUO/GN	0804104	2

Ordering data		
Type	Order No.	Pcs./Pkt.
EO-K/PT	0804119	5
EO-K/PT/GN	0804120	5
EO-K/PT/LED	0804121	5
EO-K/PT/LED/GN	0804122	5
EO-K/PT/LED/DUO	0804123	2
EO-K/PT/LED/DUO/GN	0804124	2
EO-K/UT	0804113	5
EO-K/UT/GN	0804114	5
EO-K/UT/LED	0804115	5
EO-K/UT/LED/GN	0804116	5
EO-K/UT/LED/DUO	0804117	2
EO-K/UT/LED/DUO/GN	0804118	2

Accessories		
UC-TMF 8	0818137	10
UC-TMF 16	0819262	10
ZBF 8:UNBEDRUCKT	0808781	10
ZBF 16:UNPRINTED	0827464	10

Accessories		
UC-TMF 8	0818137	10
UC-TMF 16	0819262	10
ZBF 8:UNBEDRUCKT	0808781	10
ZBF 16:UNPRINTED	0827464	10

Accessories		
UC-TMF 8	0818137	10
UC-TMF 16	0819262	10
ZBF 8:UNBEDRUCKT	0808781	10
ZBF 16:UNPRINTED	0827464	10

Shielding

SK ... shield connection clamps

The screw-type shield connection clamps in the SK series are characterized by:

- Simple handling
- Knurled screw
- Spring-loaded, large pressure piece
- Suitable for direct and busbar mounting

Notes:

Dimensional drawings can be found on page 577.



Shield connection clamps
for busbar mounting



Shield connection clamps
for direct mounting

ERC

Ordering data

Description	Color
Shield connection clamp , for applying the shield to busbars, contact resistance < 1 mΩ	
Ø 2-5 mm, tightening torque 0.4 Nm	silver
Ø 3-8 mm, tightening torque 0.6 Nm	silver
Ø 3-14 mm, tightening torque 0.8 Nm	silver
Ø 5-20 mm, tightening torque 0.8 Nm	silver
Ø 5 - 28 mm, tightening torque 1 Nm	silver
Ø 20-35 mm, tightening torque 1.2 Nm	silver
Shield connection clamp , for applying the shield directly to the conductive mounting plates, plate thickness 1-2 mm	
Ø 2-5 mm, tightening torque 0.4 Nm	silver
Ø 3-8 mm, tightening torque 0.6 Nm	silver
Ø 3-14 mm, tightening torque 0.8 Nm	silver
Ø 5-20 mm, tightening torque 0.8 Nm	silver
Ø 5 - 28 mm, tightening torque 1 Nm	silver
Ø 20-35 mm, tightening torque 1.2 Nm	silver

Accessories

PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A

NLS-CU 3/10 SN 1000MM	0402174	10

ERC

Ordering data

Type	Order No.	Pcs./Pkt.
SK 5	3025338	10
SK 8	3025163	10
SK 14	3025176	10
SK 20	3025189	10
SK 28	3026997	10
SK 35	3026463	10
SK 5-D	3025406	10
SK 8-D	3026861	10
SK 14-D	3026874	10
SK 20-D	3026887	10
SK 28-D	3027006	10
SK 35-D	3026890	10

Accessories

SKS ... shield connection clamps

- The SKS ... spring-type shield connection clamps are available for cable and conductor diameters of between 3 and 20 mm
- Three different forms of mounting are possible: on NS 35 DIN rails, on busbars or directly on conductive mounting plates

Notes:
Dimensional drawings can be found on page 577.



Shield connection clamps
for busbar and direct mounting



Shield connection clamps
for DIN rail mounting

ERC

Ordering data		
Type	Order No.	Pcs./Pkt.
Shield connection clamp , for applying the shield to busbars, contact resistance < 1 mΩ		
Ø 3-8 mm	3240210	10
Ø 3-14 mm	3240211	10
Ø 5-20 mm	3240212	10
Shield connection clamp , for directly applying the shield to conductive mounting plates, metal thickness 1-2 mm, with fastening screw M4		
Ø 3-8 mm	3240213	10
Ø 3-14 mm	3240214	10
Ø 5-20 mm	3240215	10
Ø 5-32 mm	3062906	10
Shield connection clamp , with screwfix, mounting on DIN rail NS 35..., for shield support on busbars		
Ø 3-8 mm		
Ø 3-14 mm		
Ø 5-20 mm		
Shield connection clamp , with snap-on foot, mounting on DIN rail NS 35..., for shield support on busbars		
Ø 3-8 mm		
Ø 3-14 mm		
Ø 5-20 mm		
Accessories		
PEN conductor busbar , 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A		
NLS-CU 3/10 SN 1000MM	0402174	10

ERC

Ordering data		
Type	Order No.	Pcs./Pkt.
Shield connection clamp , for applying the shield to busbars, contact resistance < 1 mΩ		
Ø 3-8 mm		
Ø 3-14 mm		
Ø 5-20 mm		
Shield connection clamp , for directly applying the shield to conductive mounting plates, metal thickness 1-2 mm, with fastening screw M4		
Ø 3-8 mm		
Ø 3-14 mm		
Ø 5-20 mm		
Ø 5-32 mm		
Shield connection clamp , with screwfix, mounting on DIN rail NS 35..., for shield support on busbars		
Ø 3-8 mm	3240216	10
Ø 3-14 mm	3240217	10
Ø 5-20 mm	3240218	10
Shield connection clamp , with snap-on foot, mounting on DIN rail NS 35..., for shield support on busbars		
Ø 3-8 mm		
Ø 3-14 mm		
Ø 5-20 mm		
Accessories		
PEN conductor busbar , 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A		
NLS-CU 3/10 SN 1000MM	0402174	10

Shielding

Support bracket for shield support on one side



AB-SK TOP

- For convenient shield connection, especially for single- and multi-level terminal blocks and devices with a front connection
- The 3 x 10 mm rail can be mounted in the support frames vertically, horizontally and at a 45° angle for optimum conductor placing
- Compact design in a 5.2 mm pitch
- Can be marked with zack marker strip and KLM ... terminal strip markers
- Parking facility for plug-in bridges FBS
- End bracket function
- For mounting SK and SKS shield connection clamps

AB-SK

- The single-sided shield support frames AB-SK are particularly well suited to space-saving conductor connection for terminal blocks and devices with cable entry at the side
- Available in two lengths
- For mounting SK shield connection clamps

AB-SKS

- For convenient shield connection, especially for single- and multi-level terminal blocks and devices with a front connection
- Isolated to DIN rail
- End bracket function
- For mounting SK and SKS shield connection clamps



Support bracket frame, tall, for SK and SKS shield connection clamps

Dimensions	[mm]

General data
Material

Description	Color

Support bracket frame with end holder function, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK and SKS shield connection clamps

gray

Support bracket with end holder function, for mounting on NS 35..., isolated to NS 35..., for accommodating 3 x 10 mm busbars, for SK and SKS shield connection clamps

gray

Support bracket, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK shield connection clamps

gray

Support bracket, 65 mm, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK shield connection clamps

gray

Support bracket with end holder function, for mounting on NS 35..., isolated to NS 35..., for accommodating 3 x 10 mm busbars, for SK and SKS shield connection clamps

gray

PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A

silver

Lateral groove marking

Technical data

Width	Length	Height
5.2	102.4	

PA

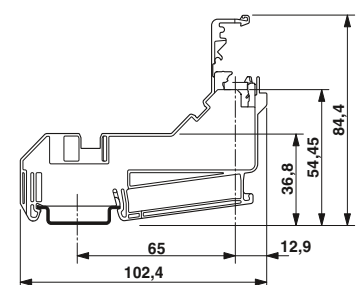
Ordering data

Type	Order No.	Pcs./Pkt.
AB-SK TOP	3062090	10
AB-SK TOP INSULATED	3062074	10

Accessories

NLS-CU 3/10 SN 1000MM	0402174	10

UC-TM 5, UCT-TM 5 or ZB 5
UC-TMF 5, UCT-TMF 5 or ZBF 5



AB-SK TOP



Support bracket frame,
for SK shield connection clamps



Support bracket, 65 mm long,
for SK shield connection clamps



Isolated support bracket, tall,
for SK and SKS shield connection clamps

Technical data		
Width	Length	Height
6.2	77.35	
PA		

Ordering data		
Type	Order No.	Pcs./Pkt.
AB-SK	3025341	10

Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10

Technical data		
Width	Length	Height
6.2	95.5	
PA		

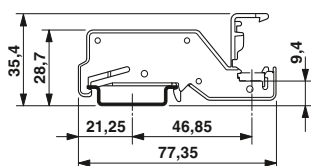
Ordering data		
Type	Order No.	Pcs./Pkt.
AB-SK 65	3026489	10

Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10

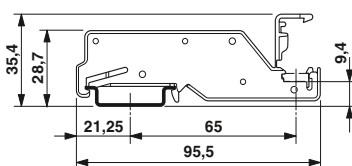
Technical data		
Width	Length	Height
9.5	97.8	
PA		

Ordering data		
Type	Order No.	Pcs./Pkt.
AB-SKS 60	3240223	10

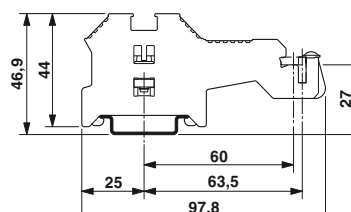
Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10



AB-SK



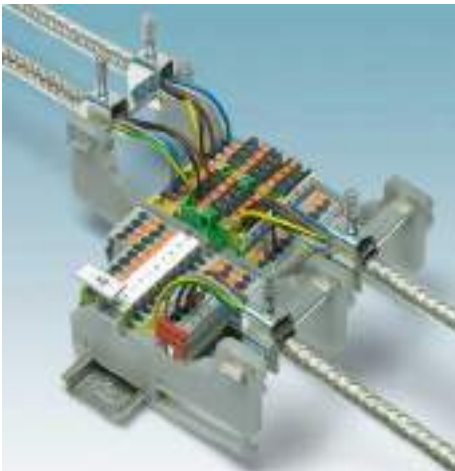
AB-SK 65



AB-SKS 60

Shielding

Double support bracket for shield support on both sides



AB-SK-D TOP

- For convenient shield connection, especially for single- and multi-level terminal blocks and devices with a front connection
- The 3 x 10 mm rail can be mounted in the support frames vertically, horizontally and at a 45° angle for optimum conductor placing
- Compact design in a 5.2 mm pitch
- Can be marked with zack marker strip and KLM ... terminal strip markers
- Parking facility for bridges and connectors
- For mounting SK and SKS shield connection clamps

AB-SK 65-D

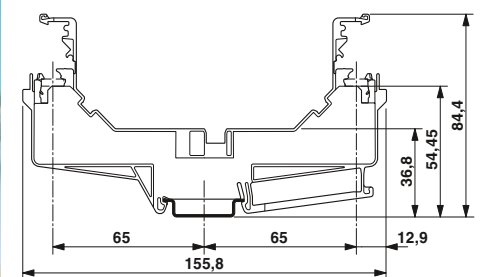
- The double shield support frames are particularly well suited to space-saving conductor connections for terminal blocks and devices with cable entry at the side
- Available in two lengths
- For mounting SK shield connection clamps

Dimensions	
	[mm]
General data	
Material	
Description	Color
Double support bracket with end bracket function, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK and SKS shield connection clamps	gray
Double support bracket with end bracket function, for mounting on NS 35..., isolated to NS 35..., for accommodating 3 x 10 mm busbars, for SK and SKS shield connection clamps	gray
Double support bracket, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK shield connection clamps	gray
Double support bracket, 65 mm, for mounting on NS 35..., isolated to NS 35... for accommodating 3 x 10 mm busbars, SK shield connection clamps	gray
PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A	silver
Lateral groove marking	



Double support bracket, tall, for SK and SKS shield connection clamps

Technical data		
Width	Length	Height
5.2	155.8	
PA		
Ordering data		
Type	Order No.	Pcs./Pkt.
AB-SK-D TOP	3062100	10
Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10
UC-TM 5, UCT-TM 5 or ZB 5		
UC-TMF 5, UCT-TMF 5 or ZBF 5		



AB-SK-D TOP



Isolated, double support bracket, tall,
for SK and SKS shield connection clamps



Double support bracket, tall,
for SK shield connection clamps



Isolated, double support bracket, tall,
for SK shield connection clamps

Technical data		
Width	Length	Height
5.2	155.8	
PA		

Ordering data		
Type	Order No.	Pcs./Pkt.

AB-SK-D TOP INSULATED	3062087	10

Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10
UC-TM 5, UCT-TM 5 or ZB 5		
UC-TMF 5, UCT-TMF 5 or ZBF 5		

Technical data		
Width	Length	Height
8.2	150	
PA		

Ordering data		
Type	Order No.	Pcs./Pkt.

AB-SK 65-D	3026900	10

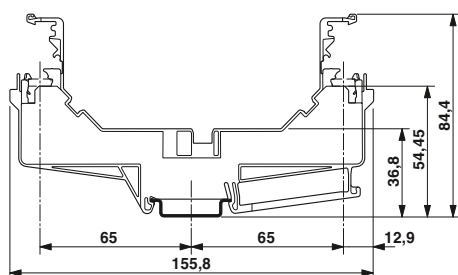
Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10

Technical data		
Width	Length	Height
8.2	150	
PA		

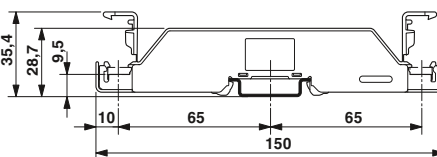
Ordering data		
Type	Order No.	Pcs./Pkt.

AB-SK 65-D INSULATED	3040889	10

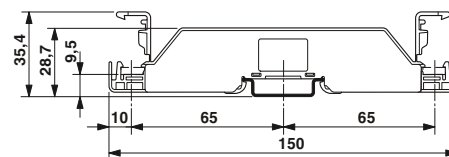
Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10



AB-SK-D TOP INSULATED



AB-SK 65-D



AB-SK 65-D INSULATED

Shielding

Support bracket frame
for direct mounting

- The support frames are available in the following versions:
- AB/SS for isolated installation on the mounting plate and
 - AB/SS-M for non-isolated installation on the mounting plate
 - For mounting SK and SKS shield connection clamps

Notes:
For dimensional drawings, see phoenixcontact.net/products



Support bracket
for SK shield connection clamps

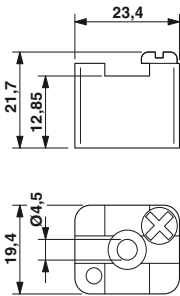


Support bracket
for SK and SKS shield connection clamps

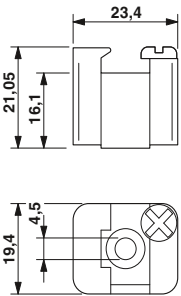
General data	
Material	PA
Description	Color
Support bracket, insulated, with retaining screw, for 3 x 10 mm or 6 x 6 mm busbars	gray
Support bracket, with contact to the mounting plate, with retaining screw, for 3 x 10 mm busbars	gray
Support bracket, insulated, for 3 x 10 mm or 6 x 6 mm busbars	gray
PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A	silver

Technical data		
PA		
Ordering data		
Type	Order No.	Pcs./Pkt.
AB/SS	0404428	10
AB/SS-M	3025888	10
Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10

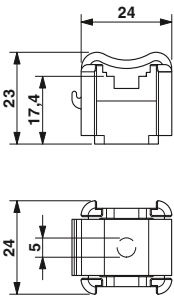
Technical data		
PA		
Ordering data		
Type	Order No.	Pcs./Pkt.
AB/SS	0404428	10
AB/SS-M	3025888	10
AB/SKS	3240224	10
Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10



AB/SS



AB/SS-M



AB/SKS

Multi-level support bracket for direct mounting



- Double and triple support frames for different busbars
- Type allows for an extremely compact design using large amounts of wiring, e.g., for multi-level front connection terminal blocks
- Support frames are isolated
- Direct mounting



Support bracket, multi-level, insulated

General data

Material

Description

Color

Double support bracket, made from insulation material, can be optionally used for either 3 x 10 mm or 6 x 6 mm neutral busbar

Height 48 mm

gray

Height 36.8 mm

gray

Triple support bracket, made from insulation material

gray

PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A

silver

PEN conductor busbar, in accordance with DIN VDE 0611-4, 6 x 6 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A

silver

Technical data

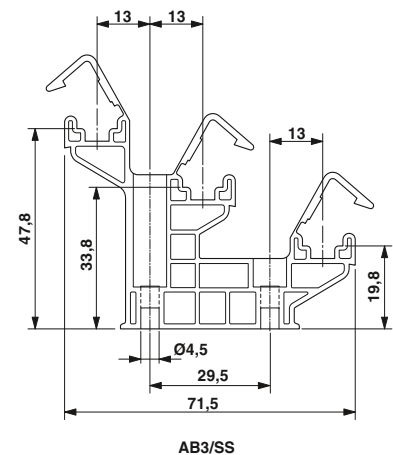
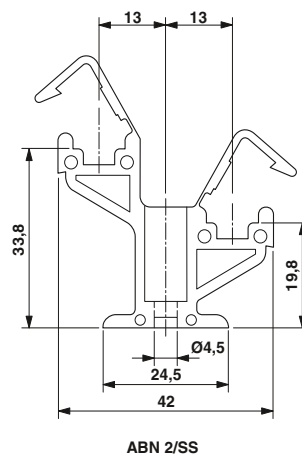
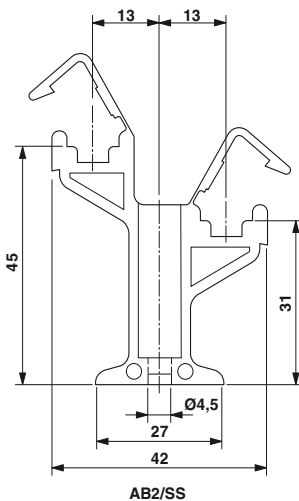
PA

Ordering data

Type	Order No.	Pcs./Pkt.
AB2/SS	0404431	10
ABN 2/SS	0404460	10
AB3/SS	0800086	10

Accessories

NLS-CU 3/10 SN 1000MM	0402174	10
NLS-CU 6/6 SN 1000MM	0402161	10



Shielding

Support bracket frame
for direct and DIN rail mounting

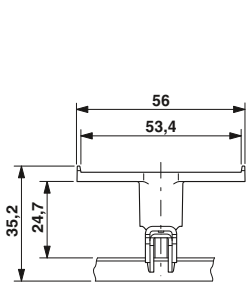


- T-shaped support frames for space-saving direct mounting and free positioning on the mounting plate
- Suitable for SK 5 to SK 14, SKS 8, and SKS 14 shield connection clamps
- Version for NS 35 DIN rail mounting

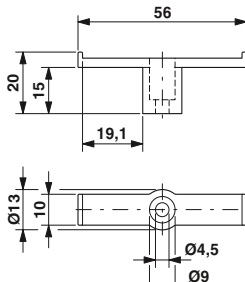


Support bracket

General data		Technical data		
Material		Aluminum		
Description		Ordering data		
Color		Type	Order No.	Pcs./Pkt.
Support bracket, for direct mounting with contacting on the mounting surface		AB-SK/E	3026476	10
Support bracket frame, for mounting on NS 35 DIN rails		AB-SK/E-NS 35	3213111	10



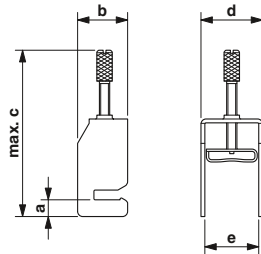
AB-SK/E-NS 35



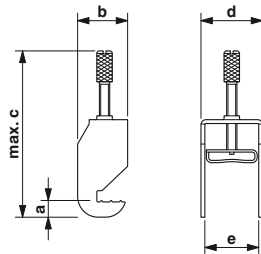
AB-SK/E

SK shield connection clamps

Terminal block	Dimensions [mm]				
	a	b	c	d	e
SK 5	6.5	19.5	46.8	9	6
SK 8	6.5	19.5	48.7	12	9
SK 14	6.5	19.5	59.3	17	14
SK 20	6.5	19.5	75	24	21
SK 28	6.5	20	93	32	28
SK 35	6.5	20	106.5	40	36
SK 5-D	6.5	19.5	46.8	9	6
SK 8-D	6.5	19.5	47.2	12	9
SK 14-D	6.5	19.5	57.8	17	14
SK 20-D	6.5	19.5	73.5	24	21
SK 28-D	6.5	20	91.5	32	28
SK 35-D	6.5	20	105.0	41	36



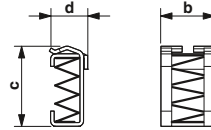
SK ...



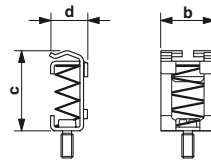
SK ...-D

SKS shield connection clamps

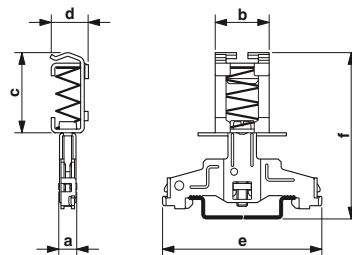
Terminal block	Dimensions [mm]					
	a	b	c	d	e	f
SKS 8	–	18	26	12.4	–	–
SKS 14	–	21	32	19	–	–
SKS 20	–	27	40.5	24.7	–	–
SKS 8-D	–	18	26	12.4	–	–
SKS 14-D	–	21	32	19	–	–
SKS 20-D	–	27	40.5	24.7	–	–
SKS 8-NS35	6	18	26	12.4	52	54
SKS 14-NS35	6	21	32	19	52	60
SKS 20-NS35	6	27	40.5	24.7	52	68.4



SKS ...



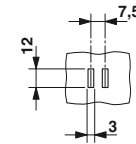
SKS ...-D



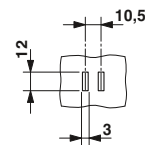
SKS ...-NS35

Drilling and punching patterns for SK ...-D

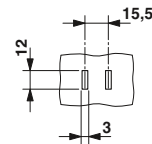
Punching template



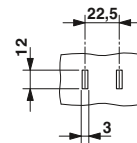
SK 5-D



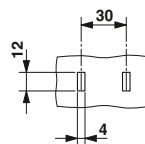
SK 8-D



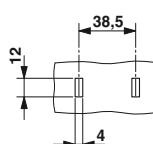
SK 14-D



SK 20-D

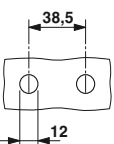
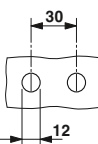
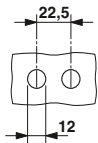
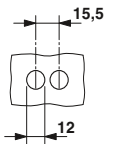
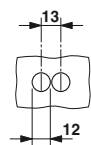
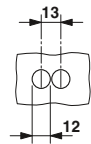


SK 28-D



SK 35-D

Drilling diagram



Halogen-free cable ducts and accessories

- Installed conductors are securely held in place by means of wire retaining clips that can be snapped onto bars on the side
- The wide, diagonal heads of the cable duct bars make it easy to fit the cover and hold it securely in place

Notes:
For cable ducts cut to customer requirements, visit:
phoenixcontact.net/products



Cable ducts, halogen-free



Cable ducts, halogen-free



Technical data		
Material	PC/ABS	
Components	Halogen-free	
Flammability rating in accordance with UL 94	V0	
Temperature range	-40 ... 90	

Ordering data			
Description	Type	Order No.	Pcs./Pkt.
Cable duct, 2000 mm long, comprising lower and upper part			
W x H: 25 x 25 mm	CD-HF 25X25	3240340	25
W x H: 25 x 40 mm	CD-HF 25X40	3240341	24
W x H: 25 x 60 mm	CD-HF 25X60	3240342	15
W x H: 25 x 80 mm	CD-HF 25X80	3240343	10
W x H: 30 x 40 mm	CD-HF 30X40	3240344	20
W x H: 30 x 60 mm	CD-HF 30X60	3240345	24
W x H: 30 x 80 mm	CD-HF 30X80	3240346	12
W x H: 30 x 100 mm	CD-HF 30X100	3240347	12
W x H: 40 x 40 mm	CD-HF 40X40	3240348	25
W x H: 40 x 60 mm	CD-HF 40X60	3240349	20
W x H: 40 x 80 mm	CD-HF 40X80	3240350	10
W x H: 40 x 100 mm	CD-HF 40X100	3240351	10
W x H: 60 x 40 mm	CD-HF 60X40	3240352	20
W x H: 60 x 60 mm	CD-HF 60X60	3240353	12
W x H: 60 x 80 mm	CD-HF 60X80	3240354	10
W x H: 60 x 100 mm	CD-HF 60X100	3240355	8
W x H: 80 x 25 mm	CD-HF 80X25	3240356	12
W x H: 80 x 40 mm	CD-HF 80X40	3240357	15
W x H: 80 x 60 mm	CD-HF 80X60	3240358	10
W x H: 80 x 80 mm	CD-HF 80X80	3240359	6
W x H: 80 x 100 mm	CD-HF 80X100	3240360	8
W x H: 100 x 40 mm	CD-HF 100X40	3240361	10
W x H: 100 x 60 mm	CD-HF 100X60	3240362	8
W x H: 100 x 80 mm	CD-HF 100X80	3240363	6
W x H: 100 x 100 mm	CD-HF 100X100	3240364	6
W x H: 120 x 60 mm	CD-HF 120X60	3240365	6
W x H: 120 x 80 mm	CD-HF 120X80	3240366	4



Technical data		
Material	PC/ABS	
Components	Halogen-free	
Flammability rating in accordance with UL 94	V0	
Temperature range	-40 ... 90	

Ordering data			
Description	Type	Order No.	Pcs./Pkt.
Cable duct, 2000 mm long, comprising lower and upper part			
W x H: 25 x 25 mm	CD 25X25 BU	3240301	25
W x H: 25 x 40 mm	CD-HF 25X40 BU	3240583	24
W x H: 25 x 60 mm	CD-HF 25X60 BU	3240584	15
W x H: 25 x 80 mm	CD-HF 25X80 BU	3240585	10
W x H: 30 x 40 mm	CD-HF 30X40 BU	3240589	12
W x H: 30 x 60 mm	CD-HF 30X60 BU	3240590	25
W x H: 30 x 80 mm	CD-HF 30X80 BU	3240592	10
W x H: 30 x 100 mm	CD-HF 30X100 BU	3240593	10
W x H: 40 x 40 mm	CD-HF 40X40 BU	3240594	20
W x H: 40 x 60 mm	CD-HF 40X60 BU	3240595	12
W x H: 40 x 80 mm	CD-HF 40X80 BU	3240596	10
W x H: 40 x 100 mm	CD-HF 40X100 BU	3240597	8
W x H: 60 x 40 mm	CD-HF 60X40 BU	3240599	15
W x H: 60 x 60 mm	CD-HF 60X60 BU	3240600	10
W x H: 60 x 80 mm	CD-HF 60X80 BU	3240601	6
W x H: 60 x 100 mm	CD-HF 60X100 BU	3240602	8
W x H: 80 x 40 mm	CD-HF 80X40 BU	3240605	6
W x H: 80 x 60 mm	CD-HF 80X60 BU	3240606	6
W x H: 80 x 80 mm	CD-HF 80X80 BU	3240608	4
W x H: 80 x 100 mm	CD-HF 80X100 BU	3240608	4

Accessories		
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100
UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1

Accessories		
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100
UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1

Plastic body-bound rivet , 4 mm diameter, for a material thickness of 1.5 ... 6 mm
6 mm diameter, material thickness of 2 ... 8 mm
Rivet setting tool , for processing the plastic body-bound rivet RVT-PA 4
Rivet setting tool , for use with RVT-PA 6 plastic body-bound rivets



- Installed conductors are securely held in place by means of wire retaining clips that can be snapped onto bars on the side
- The wide, diagonal heads of the cable duct bars make it easy to fit the cover and hold it securely in place



- Predetermined breaking point enables tool-free, burr-free removal of bars
- The CUTFOX-CD cable duct cutter for easy cutting with minimum effort and no burrs



- Plastic body-bound rivets enable easy fixing of cable ducts using the rivet setting tool



- Thanks to its powerful leverage and special blade geometry, the PPS CD cable duct cutter allows easy cutting with minimum effort and no burrs

Notes:

For cable ducts cut to customer requirements, visit:
phoenixcontact.net/products

General data

Material

Flammability rating in accordance with UL 94

Temperature range

[°C]

Description

Cable duct, 2000 mm long, comprising **lower** and **upper part**

W x H: 25 x 25 mm
W x H: 25 x 40 mm
W x H: 25 x 60 mm
W x H: 25 x 80 mm
W x H: 30 x 40 mm
W x H: 30 x 60 mm
W x H: 30 x 80 mm
W x H: 30 x 100 mm
W x H: 40 x 40 mm
W x H: 40 x 60 mm
W x H: 40 x 80 mm
W x H: 40 x 100 mm
W x H: 60 x 40 mm
W x H: 60 x 60 mm
W x H: 60 x 80 mm
W x H: 60 x 100 mm
W x H: 80 x 25 mm
W x H: 80 x 40 mm
W x H: 80 x 60 mm
W x H: 80 x 80 mm
W x H: 80 x 100 mm
W x H: 100 x 40 mm
W x H: 100 x 60 mm
W x H: 100 x 80 mm
W x H: 100 x 100 mm
W x H: 120 x 60 mm
W x H: 120 x 80 mm

Universal wire holding bracket, pre-perforated for cable duct widths of 40, 60, 80 and 100 mm

Plastic body-bound rivet, 4 mm diameter, for a material thickness of 1.5 ... 6 mm

6 mm diameter, material thickness of 2 ... 8 mm

Rivet setting tool, for processing the plastic body-bound rivet RVT-PA 4

Rivet setting tool, for use with RVT-PA 6 plastic body-bound rivets



Cable ducts, gray



Cable ducts, white



Cable ducts, blue



Technical data		
PVC		
V0		
-5 ... 60		

Technical data		
PVC		
V0		
-5 ... 60		

Technical data		
PVC		
V0		
-5 ... 60		

Ordering data		
Type	Order No.	Pcs./Pkt.
CD 25X25	3240187	25
CD 25X40	3240188	24
CD 25X60	3240191	15
CD 25X80	3240197	10
CD 30X40	3240278	20
CD 30X60	3240280	24
CD 30X80	3240282	12
CD 30X100	3240283	12
CD 40X40	3240189	25
CD 40X60	3240192	20
CD 40X80	3240198	10
CD 40X100	3240294	10
CD 60X40	3240190	20
CD 60X60	3240193	12
CD 60X80	3240199	10
CD 60X100	3240263	8
CD 80X25	3240281	12
CD 80X40	3240335	15
CD 80X60	3240194	10
CD 80X80	3240200	6
CD 80X100	3240264	8
CD 100X40	3240279	10
CD 100X60	3240195	8
CD 100X80	3240201	6
CD 100X100	3240205	6
CD 120X60	3240196	6
CD 120X80	3240202	4

Ordering data		
Type	Order No.	Pcs./Pkt.
CD 25X25 WH	3240616	25
CD 25X40 WH	3240617	24
CD 25X60 WH	3240618	15
CD 25X80 WH	3240619	10
CD 30X40 WH	3240620	20
CD 30X60 WH	3240621	24
CD 30X80 WH	3240622	12
CD 30X100 WH	3240623	12
CD 40X40 WH	3240624	25
CD 40X60 WH	3240625	20
CD 40X80 WH	3240626	10
CD 40X100 WH	3240627	10
CD 60X40 WH	3240628	20
CD 60X60 WH	3240629	12
CD 60X80 WH	3240630	10
CD 60X100 WH	3240631	8
CD 80X25 WH	3240632	12
CD 80X40 WH	3240633	15
CD 80X60 WH	3240634	10
CD 80X80 WH	3240635	6
CD 80X100 WH	3240636	8
CD 100X40 WH	3240637	10
CD 100X60 WH	3240638	8
CD 100X80 WH	3240639	6
CD 100X100 WH	3240640	6
CD 120X60 WH	3240641	6
CD 120X80 WH	3240642	4

Ordering data		
Type	Order No.	Pcs./Pkt.
CD 25X25 BU	3240301	25
CD 25X40 BU	3240302	24
CD 25X60 BU	3240303	15
CD 25X80 BU	3240304	10
CD 30X40 BU	3240305	20
CD 30X60 BU	3240306	24
CD 30X80 BU	3240307	12
CD 30X100 BU	3240308	12
CD 40X40 BU	3240309	25
CD 40X60 BU	3240310	20
CD 40X80 BU	3240311	10
CD 40X100 BU	3240312	10
CD 60X40 BU	3240313	20
CD 60X60 BU	3240314	12
CD 60X80 BU	3240315	10
CD 60X100 BU	3240316	8
CD 80X25 BU	3240317	12
CD 80X40 BU	3240318	15
CD 80X60 BU	3240319	10
CD 80X80 BU	3240320	6
CD 80X100 BU	3240321	8
CD 100X40 BU	3240322	10
CD 100X60 BU	3240323	8
CD 100X80 BU	3240324	6
CD 100X100 BU	3240325	6
CD 120X60 BU	3240326	6
CD 120X80 BU	3240327	4

Accessories		
CD WR	3240284	50
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100
UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1

Accessories		
CD WR	3240284	50
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100
UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1

Accessories		
CD WR	3240284	50
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100
UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1

Cable duct cutters



- The CUTFOX CD is a manual tool, that can be used in a mobile way, for the best unrestricted cutting performance
- The cable duct cutter enables burr and chip-free cutting to length of plastic profiles such as wiring channels and their covers
- Special cutting geometries ensure a clean cut and long lifetimes
- The PPS CD M, as a stationary tool, is ideal for convenient application over long periods of time



Cable duct cutter

ERC

Description	Color
Cable duct cutter	black
Cable duct cutters	black

Replacement blade, for PPS CD M
Replacement counter support (grip protection), for PPS CD M
Workbench, with plywood panel 700 x 1200 x 50 mm, without mounting screws and bore holes
Limit stop, 90°

Ordering data		
Type	Order No.	Pcs./Pkt.
CUTFOX-CD	1212474	1
PPS CD M	1207569	1

Accessories		
PPS CD BLADE	1207572	1
PPS CD M COHO	1208995	1
PPS TABLE	1206285	1
CUTFOX-CD/ES 90	1200289	1



Cable clamps and DIN rail



- The cable clamps provide strain relief
- Individual or bundled cables with a diameter of up to 64 mm can be safely and easily installed
- The halogen-free plastic troughs have been designed to be perfectly secure while at the same time protecting the conductors



Cable clamps for a cable diameter of 6 - 64 mm

General data

Material

Technical data

Steel

Ordering data

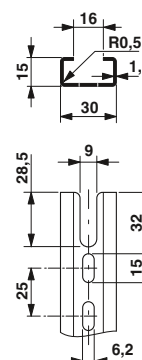
Description

Cable clamp, for DIN rail

For cable diameters of 6 – 14 mm
For cable diameters of 12 – 18 mm
For cable diameters of 18 – 22 mm
For cable diameters of 22 – 26 mm
For cable diameters of 26 – 30 mm
For cable diameters of 30 – 34 mm
For cable diameters of 34 – 38 mm
For cable diameters of 38 – 42 mm
For cable diameters of 42 – 56 mm
For cable diameters of 56 – 64 mm

DIN rails, for cable clamps

Type	Order No.	Pcs./Pkt.
WCC 14	3240252	25
WCC 18	3240253	25
WCC 22	3240254	25
WCC 26	3240255	25
WCC 30	3240256	25
WCC 34	3240257	25
WCC 38	3240258	25
WCC 42	3240259	25
WCC 56	3240260	25
WCC 64	3240261	25
NS 30/15 PERF.2000MM	3240262	5



NS 30/15 PERF. 2000MM DIN rail

Notes:

Pcs./Pkt. indicates the protective hose length in [m].



- Airtight and liquid tight
- Oil-resistant up to +80°C
- Gasoline-resistant
- Largely resistant to acids and solvents
- Free from silicone, halogen, and cadmium
- UV resistant

- Machine and system engineering
- Vehicle construction
- Rail vehicles
- Shipbuilding
- Automation
- Electrical systems

- Can be used wherever it is not possible or necessary to attach a cable gland
- Prevent damage to the conductors being fed through



Slotted, outside diameter of 21.2 - 42.5 mm



PA
Free from silicone, halogen, and cadmium
V0
-40 ... 105

[illegible]



PA 6.6 V0 plastic protective hose,
outside diameter of 10 - 42.5 mm



PA 6.6 HB plastic protective hose,
outside diameter of 10 - 42.5 mm



Transition sleeve for protective hose
diameters of 10 - 42.5 mm



Technical data
PA Free from silicone, halogen, and cadmium V0 -40 ... 115

Technical data
PA Free from silicone, halogen, and cadmium HB -40 ... 105

Technical data
TPE Halogen-free HB -40 ... 120

Ordering data		
Type	Order No.	Pcs./Pkt.

Ordering data		
Type	Order No.	Pcs./Pkt.

Ordering data		
Type	Order No.	Pcs./Pkt.

WP-PA HF 10,0 BK	3240680	50
WP-PA HF 13,0 BK	3240681	50
WP-PA HF 15,8 BK	3240682	50
WP-PA HF 21,2 BK	3240683	50
WP-PA HF 28,5 BK	3240684	50
WP-PA HF 34,5 BK	3241088	25
WP-PA HF 42,5 BK	3241089	25
WP-PA HF 54,5 BK	0803381	25

WP-PA HF-HB 10,0 BK	3240838	50
WP-PA HF-HB 13,0 BK	3240839	50
WP-PA HF-HB 15,8 BK	3240840	50
WP-PA HF-HB 21,2 BK	3240841	50
WP-PA HF-HB 28,5 BK	3240842	50
WP-PA HF-HB 34,5 BK	3240843	25
WP-PA HF-HB 42,5 BK	3240844	25

WP-EC TPE HF 10,0 BK	3240974	50
WP-EC TPE HF 13,0 BK	3240975	50
WP-EC TPE HF 15,8 BK	3240976	50
WP-EC TPE HF 21,2 BK	3240977	50
WP-EC TPE HF 28,5 BK	3240978	25
WP-EC TPE HF 34,5 BK	3240979	25
WP-EC TPE HF 42,5 BK	3240980	25

WP-SC PA HF 10,0 BK	3240981	50
WP-SC PA HF 13,0 BK	3240982	50
WP-SC PA HF 15,8 BK	3240983	50
WP-SC PA HF 21,2 BK	3240984	50
WP-SC PA HF 28,5 BK	3240985	25
WP-SC PA HF 34,5 BK	3240986	25
WP-SC PA HF 42,5 BK	3240987	25

Cable routing, cable protection, cable bundling

Screw connections for plastic protective hoses



The plastic screw connections with straight design are available in IP66 and IP69K protection classes. They offer the following features:

- Vibration-resistant, automatic protective hose latching
- Pg or metric thread
- Resistant to oil and gasoline
- Resistant to acids and solvents
- Free from silicone, halogen, and cadmium

Tool-free protective hose mounting

- Secure, reliable, and easy latching in the hose screw connection, see figure below



Notes:

For accessories and dimensional drawings, see phoenixcontact.net/products

To ensure the IP69K degree of protection between the hose screw connection and screw connection housing, sealant must be applied to the threading. LOCTITE® 5331™ is a suitable thread sealant for this.



IP66 degree of protection,
Pg7 - Pg36 thread



General data

Material	
Components	
Degree of protection	
Thread type	
Flammability rating in accordance with UL 94	
Temperature range	[°C]

Technical data

PA
Free from silicone, halogen, and cadmium
IP66
Pg
V0
-40 ... 115

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Screw connection, IP66, straight, with Pg thread, for protective hose outside diameter [mm]				
10	black	WP-G HF IP66 PG7 BK	3240888	50
13	black	WP-G HF IP66 PG9 BK	3240889	50
15.8	black	WP-G HF IP66 PG11 BK	3240890	50
21.2	black	WP-G HF IP66 PG16 BK	3240891	50
28.5	black	WP-G HF IP66 PG21 BK	3240892	25
34.5	black	WP-G HF IP66 PG29 BK	3240893	25
42.5	black	WP-G HF IP66 PG36 BK	3240894	25
Screw connection, IP66, straight, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, straight, with Pg thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, straight, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			

Counter nuts and seals

Accessories

see page 604 onwards



IP66 degree of protection,
M10 - M40 metric thread



IP69K degree of protection,
Pg7 - Pg36 thread



IP69K degree of protection,
M10 - M40 metric thread



Technical data
PA Free from silicone, halogen, and cadmium IP66 metric V0 -40 ... 115

Technical data
PA Free from silicone, halogen, and cadmium IP68/IP69K Pg V0 -40 ... 115

Technical data
PA Free from silicone, halogen, and cadmium IP68/IP69K metric V0 -40 ... 115

Ordering data		
Type	Order No.	Pcs./Pkt.

Ordering data		
Type	Order No.	Pcs./Pkt.

Ordering data		
Type	Order No.	Pcs./Pkt.

WP-G HF IP66 M10 BK	3240895	50
WP-G HF IP66 M12 BK	3240896	50
WP-G HF IP66 M16 BK	3240897	50
WP-G HF IP66 M20 BK	3240898	50
WP-G HF IP66 M25 BK	3240899	25
WP-G HF IP66 M32 BK	3240900	25
WP-G HF IP66 M40 BK	3240901	25

WP-G HF IP69K PG7 BK	3240874	50
WP-G HF IP69K PG9 BK	3240875	50
WP-G HF IP69K PG11 BK	3240876	50
WP-G HF IP69K PG16 BK	3240877	50
WP-G HF IP69K PG21 BK	3240878	25
WP-G HF IP69K PG29 BK	3240879	25
WP-G HF IP69K PG36 BK	3240880	25

WP-G HF IP69K M10 BK	3240881	50
WP-G HF IP69K M12 BK	3240882	50
WP-G HF IP69K M16 BK	3240883	50
WP-G HF IP69K M20 BK	3240884	50
WP-G HF IP69K M25 BK	3240885	25
WP-G HF IP69K M32 BK	3240886	25
WP-G HF IP69K M40 BK	3240887	25

Accessories
see page 604 onwards

Accessories
see page 604 onwards

Accessories
see page 604 onwards

Cable routing, cable protection, cable bundling

Screw connections, angled, for plastic protective hoses



The plastic screw connections with angled design are available in IP66 and IP69K protection classes. They offer the following features:

- Vibration-resistant, automatic protective hose latching
- Pg or metric thread
- Resistant to oil and gasoline
- Resistant to acids and solvents
- Free from silicone, halogen, and cadmium

Tool-free protective hose mounting

- Secure, reliable, and easy latching in the hose screw connection

Notes:

For accessories and dimensional drawings, see phoenixcontact.net/products

To ensure the IP69K degree of protection between the hose screw connection and screw connection housing, sealant must be applied to the threading. LOCTITE® 5331™ is a suitable thread sealant for this.



IP66 degree of protection,
Pg7 - Pg36 thread



Technical data

Material	PA
Components	Free from silicone, halogen, and cadmium
Degree of protection	IP66
Thread type	Pg
Flammability rating in accordance with UL 94	HB
Temperature range	-40 ... 115

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Screw connection, IP66, 90° angled, with Pg thread, for protective hose outside diameter [mm]				
10	black	WP-GA HF IP66 PG7 BK	3240916	50
13	black	WP-GA HF IP66 PG9 BK	3240917	50
15.8	black	WP-GA HF IP66 PG11 BK	3240918	50
21.2	black	WP-GA HF IP66 PG16 BK	3240919	50
28.5	black	WP-GA HF IP66 PG21 BK	3240920	25
34.5	black	WP-GA HF IP66 PG29 BK	3240921	10
42.5	black	WP-GA HF IP66 PG36 BK	3240922	10
Screw connection, IP66, 90° angled, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
Screw connection, IP69K, 90° angled, with Pg thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, 90° angled, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			

Accessories

Counter nuts and seals

see page 604 onwards



IP66 degree of protection,
M10 - M40 metric thread



IP69K degree of protection,
Pg7 - Pg36 thread



IP69K degree of protection,
M10 - M40 metric thread



Technical data
PA
Free from silicone, halogen, and cadmium
IP66
metric
HB
-40 ... 115

Technical data
PA
Free from silicone, halogen, and cadmium
IP68/IP69K
Pg
HB
-40 ... 115

Technical data
PA
Free from silicone, halogen, and cadmium
IP68/IP69K
metric
HB
-40 ... 115

Ordering data

Ordering data

Ordering data

Type	Order No.	Pcs./Pkt.
WP-GA HF IP66 M10 BK	3240923	50
WP-GA HF IP66 M12 BK	3240924	50
WP-GA HF IP66 M16 BK	3240925	50
WP-GA HF IP66 M20 BK	3240926	50
WP-GA HF IP66 M25 BK	3240927	50
WP-GA HF IP66 M32 BK	3240928	25
WP-GA HF IP66 M40 BK	3240929	10

Type	Order No.	Pcs./Pkt.
WP-GA HF IP69K PG7 BK	3240902	50
WP-GA HF IP69K PG9 BK	3240903	50
WP-GA HF IP69K PG11 BK	3240904	50
WP-GA HF IP69K PG16 BK	3240905	50
WP-GA HF IP69K PG21 BK	3240906	25
WP-GA HF IP69K PG29 BK	3240907	10
WP-GA HF IP69K PG36 BK	3240908	10

Type	Order No.	Pcs./Pkt.
WP-GA HF IP69K M10 BK	3240909	50
WP-GA HF IP69K M12 BK	3240910	50
WP-GA HF IP69K M16 BK	3240911	50
WP-GA HF IP69K M20 BK	3240912	50
WP-GA HF IP69K M25 BK	3240913	25
WP-GA HF IP69K M32 BK	3240914	10
WP-GA HF IP69K M40 BK	3240915	10

Accessories
see page 604 onwards

Accessories
see page 604 onwards

Accessories
see page 604 onwards

Cable routing, cable protection, cable bundling

Screw connections with strain relief, for plastic protective hoses



The plastic screw connections with strain relief are available in IP66 and IP69K protection classes. They offer the following features:

- Vibration-resistant, automatic protective hose latching
- Pg or metric thread
- Integrated cable strain relief
- Resistant to oil and gasoline
- Resistant to acids and solvents
- Free from silicone, halogen, and cadmium

Tool-free protective hose mounting

- Secure, reliable, and easy latching in the hose screw connection

Notes:

For accessories and dimensional drawings, see phoenixcontact.net/products

To ensure the IP69K degree of protection between the hose screw connection and screw connection housing, sealant must be applied to the threading. LOCTITE® 5331™ is a suitable thread sealant for this.



IP66 degree of protection,
Pg7 - Pg36 thread, with strain relief



General data

Material	
Components	
Degree of protection	
Thread type	
Flammability rating in accordance with UL 94	
Temperature range	[°C]

Technical data

PA
Free from silicone, halogen, and cadmium
IP66
Pg
V0
-40 ... 115

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Screw connection, IP66, straight, with Pg thread, for protective hose outside diameter [mm]				
10	black	WP-GR HF IP66 PG7 BK	3240944	20
13	black	WP-GR HF IP66 PG9 BK	3240945	20
15.8	black	WP-GR HF IP66 PG11 BK	3240946	20
21.2	black	WP-GR HF IP66 PG16 BK	3240947	10
28.5	black	WP-GR HF IP66 PG21 BK	3240948	10
34.5	black	WP-GR HF IP66 PG29 BK	3240949	10
42.5	black	WP-GR HF IP66 PG36 BK	3240950	10
Screw connection, IP66, straight, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
Screw connection, IP69K, straight, with Pg thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, straight, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			

Accessories

Counter nuts and seals

see page 604 onwards



IP66 degree of protection,
M12 - M40 metric thread, with strain relief



IP69K degree of protection,
Pg7 - Pg36 thread, with strain relief



IP69K degree of protection,
M12 - M40 metric thread, with strain relief



Technical data
PA
Free from silicone, halogen, and cadmium
IP66
metric
V0
-40 ... 115

Technical data
PA
Free from silicone, halogen, and cadmium
IP68/IP69K
Pg
V0
-40 ... 115

Technical data
PA
Free from silicone, halogen, and cadmium
IP68/IP69K
metric
V0
-40 ... 115

Ordering data

Ordering data

Ordering data

Type	Order No.	Pcs./Pkt.
WP-GR HF IP66 M12 BK	3240952	20
WP-GR HF IP66 M16 BK	3240953	20
WP-GR HF IP66 M20 BK	3240954	20
WP-GR HF IP66 M25 BK	3240955	10
WP-GR HF IP66 M32 BK	3240956	10
WP-GR HF IP66 M40 BK	3240957	10

Type	Order No.	Pcs./Pkt.
WP-GR HF IP69K PG7 BK	3240930	20
WP-GR HF IP69K PG9 BK	3240931	20
WP-GR HF IP69K PG11 BK	3240932	20
WP-GR HF IP69K PG16 BK	3240933	10
WP-GR HF IP69K PG21 BK	3240934	10
WP-GR HF IP69K PG29 BK	3240935	10
WP-GR HF IP69K PG36 BK	3240936	10

Type	Order No.	Pcs./Pkt.
WP-GR HF IP69K M12 BK	3240938	20
WP-GR HF IP69K M16 BK	3240939	20
WP-GR HF IP69K M20 BK	3240940	20
WP-GR HF IP69K M25 BK	3240941	10
WP-GR HF IP69K M32 BK	3240942	10
WP-GR HF IP69K M40 BK	3240943	10

Accessories

Accessories

Accessories

see page 604 onwards

see page 604 onwards

see page 604 onwards

Cable routing, cable protection, cable bundling

Protective hoses with PVC- or PU-coated spirals



The **WP-SPIRAL PVC C ...** plastic protective hoses with soft PVC-coated spring wire helix offer optimum protection, thanks to the following properties:

- Highly flexible
- Can be stretched and compressed
- Internal corrosion protection
- Largely resistant to acids and solvents
- Free from silicone and cadmium
- Airtight and liquid tight

The **WP-SPIRAL PU C ...** plastic protective hoses with fixed, PU-coated spring wire helix offer the following:

- Very tough and resistant to abrasion
- Highly flexible
- Resistant to germs
- Airtight and liquid tight
- Resistant to oil and grease
- Gasoline-resistant
- Largely resistant to acids and solvents
- Free from silicone, halogen, and cadmium
- Flame-protected
- Excellent behavior at low temperatures
- V2 in accordance with UL 94
- Suitable as a suction tube

The coated protective hoses are particularly suitable for the following fields of application:

- Machine and system engineering
- Vehicle construction
- Use in guide chains
- Shipbuilding
- Automation
- Electrical systems

Notes:

Pcs./Pkt. indicates the protective hose length in [m].



Protective hose, PVC-coated spiral, outside diameter of 10 - 45 mm



General data

Material	
Components	
Flammability rating in accordance with UL 94	
Temperature range	[°C]

Technical data

PVC
Free from silicone and cadmium
-
-25 ... 80

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Protective hose, PVC-coated spiral				
Diameter [mm]	Bending radius [mm]			
Outside/inside	static			
10 / 7	8	gray	WP-SPIRAL PVC C 10	10
14 / 10	10	gray	WP-SPIRAL PVC C 14	10
17 / 13	13	gray	WP-SPIRAL PVC C 17	10
21 / 16	17	gray	WP-SPIRAL PVC C 21	10
27 / 22	20	gray	WP-SPIRAL PVC C 27	10
36 / 29	24	gray	WP-SPIRAL PVC C 36	10
45 / 38	36	gray	WP-SPIRAL PVC C 45	10
Protective hose, PU-coated spiral				
Diameter [mm]	Bending radius [mm]			
Outside/inside	static			
10 / 7	8	blue		
14 / 10	10	blue		
17 / 13	13	blue		
21 / 16	17	blue		
27 / 22	20	blue		
36 / 29	24	blue		
45 / 38	36	blue		
End sleeves				
Diameter [mm]	Cable diameter [mm]			
Outside/inside				
10 / 7	6	gray		
14 / 10	9	gray		
17 / 13	11.5	gray		
21 / 16	14.5	gray		
27 / 21	19.5	gray		
36 / 29	26.5	gray		
45 / 38	36	gray		



Protective hose, PU-coated spiral,
outside diameter of 10 - 45 mm



End sleeve for protective hose
diameter of 10 - 45 mm



Technical data
PU
Free from silicone, halogen, and cadmium
V2
-40 ... 80

Ordering data		
Type	Order No.	Pcs./Pkt.

WP-SPIRAL PU C HF 10	3240856	10
WP-SPIRAL PU C HF 14	3240857	10
WP-SPIRAL PU C HF 17	3240858	10
WP-SPIRAL PU C HF 21	3240859	10
WP-SPIRAL PU C HF 27	3240860	10
WP-SPIRAL PU C HF 36	3240861	10
WP-SPIRAL PU C HF 45	3240862	10

Technical data
PP
Halogen-free
HB
-10 ... 110

Ordering data		
Type	Order No.	Pcs./Pkt.

WP-SC HF 10	3241016	50
WP-SC HF 14	3241017	50
WP-SC HF 17	3241018	50
WP-SC HF 21	3241019	50
WP-SC HF 27	3241020	25
WP-SC HF 36	3241021	25
WP-SC HF 45	3241022	20

Cable routing, cable protection, cable bundling

Screw connections, for protective hoses with coated spirals



The polypropylene screw connections with a straight design are available with or without a rotatable connecting thread.

- Easy, tool-free mounting
- High resistance to dust and fluids
- Vibration resistance and high tensile strength, thanks to hose screw-out locking

Rotatable screw connections

- The protective hose can still be rotated after panel mounting, thanks to the special screw connections



IP65 degree of protection,
Pg7 - Pg36 thread



General data

Material	PP
Degree of protection	IP65
Thread type	Pg
Components	Halogen-free
Flammability rating in accordance with UL 94	HB
Temperature range	-10 ... 110 [°C]

Technical data

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Screw connection, IP65, straight, with Pg thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	6	gray	WP-G PP HF PG7	10
14	9	gray	WP-G PP HF PG9	10
17	11	gray	WP-G PP HF PG11	10
21	14.5	gray	WP-G PP HF PG16	10
27	19.5	gray	WP-G PP HF PG21	10
36	27	gray	WP-G PP HF PG29	2
45	36	gray	WP-G PP HF PG36	2
Screw connection, IP65, straight, with metric thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	6	gray		
14	8	gray		
17	11	gray		
21	15	gray		
27	20	gray		
36	27	gray		
45	35	gray		
Screw connection, IP54, rotatable, with Pg thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	5.5	gray		
14	9.5	gray		
17	11.5	gray		
21	14.5	gray		
27	19.5	gray		
36	27	gray		
45	35.5	gray		
Screw connection, IP54, rotatable, with metric thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	5.5	gray		
14	9.5	gray		
17	11.5	gray		
21	14.5	gray		
27	19.5	gray		
36	27	gray		

Accessories

Counter nuts and seals

see page 604 onwards



IP65 degree of protection,
M10 - M40 metric thread



IP54 degree of protection,
Pg7 - Pg36 thread, rotatable



IP54 degree of protection,
M12 - M40 metric thread, rotatable



Technical data
PP
IP65
metric
Halogen-free
HB
-10 ... 110

Technical data
PP
IP54
Pg
Halogen-free
HB
-10 ... 110

Technical data
PP
IP54
metric
Halogen-free
HB
-10 ... 110

Ordering data

Ordering data

Ordering data

Type	Order No.	Pcs./Pkt.
WP-G PP HF M10	3240995	10
WP-G PP HF M12	3240996	10
WP-G PP HF M16	3240997	10
WP-G PP HF M20	3240998	10
WP-G PP HF M25	3240999	10
WP-G PP HF M32	3241000	2
WP-G PP HF M40	3241001	2

Type	Order No.	Pcs./Pkt.
WP-GT PP HF PG7	3241002	10
WP-GT PP HF PG9	3241003	10
WP-GT PP HF PG11	3241004	10
WP-GT PP HF PG16	3241005	10
WP-GT PP HF PG21	3241006	10
WP-GT PP HF PG29	3241007	2
WP-GT PP HF PG36	3241008	2

Type	Order No.	Pcs./Pkt.
WP-GT PP HF M12	3241010	10
WP-GT PP HF M16	3241011	10
WP-GT PP HF M20	3241012	10
WP-GT PP HF M25	3241013	10
WP-GT PP HF M32	3241014	10
WP-GT PP HF M40	3241015	2

Accessories

Accessories

Accessories

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see page 604 onwards

see page 604 onwards

Cable routing, cable protection, cable bundling

Protective hoses made of steel or stainless steel



The metal protective hoses made of galvanized steel or stainless steel offer optimum protection and have a wide range of uses, thanks to the following properties:

- Interlocked, helix-wound profile
- Highly flexible
- High tensile strength and resistance to lateral pressure

These properties make the products suitable for use in the following areas:

- Machine and system engineering
- Vehicle construction
- Ex area in accordance with EN 60079-14 and EN 61241-14
- Shipbuilding
- Rail vehicles
- Automation
- Electrical systems

Notes:

Pcs./Pkt. indicates the protective hose length in [m].



Stainless steel protective hose, outside diameter of 10 - 45 mm



General data

Material	Steel, galvanized
Temperature range	-200 ... 220 [°C]

Technical data

Steel, galvanized
-200 ... 220

Ordering data

Description	Color
Protective hose	
Diameter [mm]	Bending radius [mm]
Outside/inside	static
10 / 8	28
14 / 11	34
17 / 14	40
21 / 18	50
27 / 23	63
36 / 31	85
45 / 40	100
Protective hose	
Diameter [mm]	Bending radius [mm]
Outside/inside	static
10 / 8	22
14 / 11	25
17 / 14	40
21 / 18	50
27 / 23	63
36 / 31	85
45 / 40	100
End sleeves	
Outside diameter of hose [mm]	Cable diameter [mm]
10	6.5
14	10
17	12.5
21	16.5
27	21.5
36	29.5
45	38

Type	Order No.	Pcs./Pkt.
WP-STEEL ZC 10	3240697	10
WP-STEEL ZC 14	3240865	10
WP-STEEL ZC 17	3240698	10
WP-STEEL ZC 21	3240699	10
WP-STEEL ZC 27	3240866	10
WP-STEEL ZC 36	3240700	10
WP-STEEL ZC 45	3240701	10



Stainless steel protective hose (V2A),
outside diameter of 10 - 45 mm



End sleeve for protective hose
diameter of 10 - 45 mm

Technical data
Stainless steel 1.4301/AISI 304 -200 ... 600

Ordering data		
Type	Order No.	Pcs./Pkt.

WP-STEEL S 10	3240686	10
WP-STEEL S 14	3240687	10
WP-STEEL S 17	3240863	10
WP-STEEL S 21	3240688	10
WP-STEEL S 27	3240864	10
WP-STEEL S 36	3240689	10
WP-STEEL S 45	3240690	10

Technical data
Brass -40 ... 250

Ordering data		
Type	Order No.	Pcs./Pkt.

WP-SC BRASS 10	3241065	50
WP-SC BRASS 14	3241066	50
WP-SC BRASS 17	3241067	50
WP-SC BRASS 21	3241068	50
WP-SC BRASS 27	3241069	25
WP-SC BRASS 36	3241070	25
WP-SC BRASS 45	3241071	20

Installation and mounting material – CABINET add-on

Cable routing, cable protection, cable bundling

Screw connections, for protective hoses made of steel or stainless steel



The screw connections are available with or without a rotatable connecting thread. They have the following properties:

- Easy mounting of protective hose without tools
- Vibration resistance and high tensile strength, thanks to hose screw-out locking
- Integrated inner sleeve and rotation lock for hose

Rotatable screw connections

- The protective hose can still be rotated after panel mounting, thanks to the special screw connections



Notes:

Inner sleeves and seals are supplied as standard.



IP40 degree of protection,
Pg7 - Pg36 thread



Technical data

General data

Material	Brass
Degree of protection	IP40
Thread type	Pg
Temperature range	-40 ... 125 [°C]

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Screw connection, IP40, with Pg thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10 / 6	6.5	WP-G BRASS IP40 PG7	3241037	10
14 / 8.5	10	WP-G BRASS IP40 PG9	3241038	10
17 / 11.5	12.5	WP-G BRASS IP40 PG11	3241039	10
21 / 15.5	16	WP-G BRASS IP40 PG16	3241040	10
27 / 20.5	21.5	WP-G BRASS IP40 PG21	3241041	10
36 / 27.5	29	WP-G BRASS IP40 PG29	3241042	2
45 / 36.5	38	WP-G BRASS IP40 PG36	3241043	2
Screw connection, IP40, with metric thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10 / 6	6.5			
14 / 8.5	10			
17 / 11.5	12.5			
21 / 15.5	16			
27 / 20.5	21.5			
36 / 27.5	27.5			
45 / 36.5	35			
Screw connection, IP40, rotatable, with Pg thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10 / 6	6			
14 / 8.5	9			
17 / 11.5	12			
21 / 15.5	15.5			
27 / 20.5	20.5			
36 / 27.5	27.5			
45 / 36.5	36.5			
Screw connection, IP40, rotatable, with metric thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10 / 6	6			
14 / 8.5	9			
17 / 11.5	12			
21 / 15.5	15.5			
27 / 20.5	20.5			
36 / 27.5	27.5			
45 / 36.5	35			



IP40 degree of protection,
M10 - M40 metric thread



IP40 degree of protection,
Pg7 - Pg36 thread, rotatable



IP40 degree of protection,
M10 - M40 metric thread, rotatable



Technical data		
Brass		
IP40		
metric		
-40 ... 125		

Ordering data		
Type	Order No.	Pcs./Pkt.

WP-G BRASS IP40 M10	3241044	10
WP-G BRASS IP40 M12	3241045	10
WP-G BRASS IP40 M16	3241046	10
WP-G BRASS IP40 M20	3241047	10
WP-G BRASS IP40 M25	3241048	10
WP-G BRASS IP40 M32	3241049	2
WP-G BRASS IP40 M40	3241050	2

Technical data		
Brass		
IP40		
Pg		
-40 ... 250		

Ordering data		
Type	Order No.	Pcs./Pkt.

WP-GT BRASS PG7	3241023	10
WP-GT BRASS PG9	3241024	10
WP-GT BRASS PG11	3241025	10
WP-GT BRASS PG16	3241026	10
WP-GT BRASS PG21	3241027	10
WP-GT BRASS PG29	3241028	2
WP-GT BRASS PG36	3241029	2

Technical data		
Brass		
IP40		
metric		
-40 ... 250		

Ordering data		
Type	Order No.	Pcs./Pkt.

WP-GT BRASS M10	3241030	10
WP-GT BRASS M12	3241031	10
WP-GT BRASS M16	3241032	10
WP-GT BRASS M20	3241033	10
WP-GT BRASS M25	3241034	10
WP-GT BRASS M32	3241035	2
WP-GT BRASS M40	3241036	2

Installation and mounting material – CABINET add-on

Cable routing, cable protection, cable bundling

Protective hoses made of steel with PVC coating and screw connections

- Optimum protection
- Numerous possible applications
- Tool-free assembly of screw connection and protective hose
- Screw connection for high resistance

Notes:
Pcs./Pkt. indicates the protective hose length in [m].
Inner sleeves and seals are supplied as standard.



**Stainless steel protective hose (V2A),
PVC coated, outside diameter of 10 - 45 mm**



**IP65 degree of protection,
Pg7 - Pg36 thread and M10 - M40 metric thread**



Technical data

General data
Material
Degree of protection
Thread type
Temperature range

Steel, galvanized/PVC
IP68
-
-25 ... 80

Ordering data

Description	Color

Protective hose, in galvanized steel, PVC coated

Diameter [mm]	Bending radius [mm]	
Outside/inside	static	
10 / 7	95	black
14 / 10	105	black
17 / 13	115	black
21 / 17	110	black
27 / 22	135	black
36 / 29	145	black
45 / 38	215	black

End sleeves, in brass

Outside diameter of hose [mm]	Cable diameter [mm]	
10	6	brass
14	8.5	brass
17	11.5	brass
21	15.5	brass
27	20.5	brass
36	27.5	brass
45	36.5	brass

Screw connection, IP65, with Pg thread

Outside diameter of protective hose [mm]	Cable diameter [mm]	
10	6	brass
14	8.5	brass
17	11.5	brass
21	15.5	brass
27	20.5	brass
36	27.5	brass
45	35	brass

Screw connection, IP65, with metric thread

Outside diameter of protective hose [mm]	Cable diameter [mm]	
10	6	brass
14	8.5	brass
17	11.5	brass
21	15.5	brass
27	20.5	brass
36	27.5	brass
45	35	brass



Technical data

Brass
IP65
Pg
-40 ... 125

Ordering data

Type	Order No.	Pcs./Pkt.

WP-G BRASS IP65 PG7	3241051	10
WP-G BRASS IP65 PG9	3241052	10
WP-G BRASS IP65 PG11	3241053	10
WP-G BRASS IP65 PG16	3241054	10
WP-G BRASS IP65 PG21	3241055	10
WP-G BRASS IP65 PG29	3241056	2
WP-G BRASS IP65 PG36	3241057	2

WP-G BRASS IP65 M10	3241058	10
WP-G BRASS IP65 M12	3241059	10
WP-G BRASS IP65 M16	3241060	10
WP-G BRASS IP65 M20	3241061	10
WP-G BRASS IP65 M25	3241062	10
WP-G BRASS IP65 M32	3241063	2
WP-G BRASS IP65 M40	3241064	2

Spiral hoses



Easy bundling and routing of cables and conductors

- Fast and easy to use
- Can be retrofitted
- The spiral structure means that individual conductors and cables can be led out at any point
- Offer protection under light mechanical strain

Notes:

Pcs./Pkt. indicates the spiral hose length in [m].



**Spiral hose,
for bundle diameters of 2 mm - 150 mm**

General data

Material	
Components	
Flammability rating in accordance with UL 94	
Temperature range	[°C]

Technical data

PE
Free from silicone and halogen
HB
-50 ... 85

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Spiral hose, for bundle diameters				
2 - 15 mm	transparent	WG-S HF 15	3241109	50
4 - 20 mm	transparent	WG-S HF 20	3241111	25
7 - 40 mm	transparent	WG-S HF 40	3241113	25
12 - 50 mm	transparent	WG-S HF 50	3241115	25
13 - 70 mm	transparent	WG-S HF 70	3241117	25
15 - 80 mm	transparent	WG-S HF 80	3241119	20
20 - 120 mm	transparent	WG-S HF 120	3241121	25
25 - 150 mm	transparent	WG-S HF 150	3241123	20
Spiral hose, for bundle diameters				
2 - 15 mm	black	WG-S HF 15 BK	3241110	50
4 - 20 mm	black	WG-S HF 20 BK	3241112	25
7 - 40 mm	black	WG-S HF 40 BK	3241114	25
12 - 50 mm	black	WG-S HF 50 BK	3241116	25
13 - 70 mm	black	WG-S HF 70 BK	3241118	25
15 - 80 mm	black	WG-S HF 80 BK	3241120	20
20 - 120 mm	black	WG-S HF 120 BK	3241122	25
25 - 150 mm	black	WG-S HF 150 BK	3241124	20

Electrician's scissors, high cutting performance, thanks to micro-serrated cutting area, suitable for copper, aluminum (flexible), Kevlar® fibers, and plastic, two-component non-slip soft-grip handles, ergonomic design, adjustable screw joint

Accessories

CUTFOX-ES	1212621	1

The WP-BASE C ... protective hose holders with cover are attached using a screw.

- An integrated rib fastening also helps to relieve the strain on the protective hose
- The base of the holder is designed so that it can even be pushed onto a C DIN rail
- The engagement pins enable hose holders of different sizes to be arranged alongside each other

WP-BASE HF ... protective hose clips:

- Galvanized steel locking latch with rubber profile
- Mounting with a screw

WP-BASE ... fixing bracket:

- With two mounting holes in accordance with DIN 46320
- Protective hose feed-through can be attached to the side of the panel
- Pg or metric protective hose screw connections can be mounted on a bracket.



Protective hose with cover

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Protective hose clip



Fixing bracket, screw version,
for Pg screw connection



Fixing bracket, screw version,
for metric screw connection

Technical data
Steel, galvanized

Ordering data

Type	Order No.	Pcs./Pkt.
WP-BASE HF 9-10	3240965	50
WP-BASE HF 13	3240966	50
WP-BASE HF 14	3240967	50
WP-BASE HF 15,8	3240968	50
WP-BASE HF 17	3240969	50
WP-BASE HF 22	3240970	50
WP-BASE HF 29	3240971	50
WP-BASE HF 37	3240972	50
WP-BASE HF 45	3240973	25

Technical data
Steel, galvanized

Ordering data

Type	Order No.	Pcs./Pkt.
WP-BASE A PG16	3241079	25
WP-BASE A PG21	3241080	25
WP-BASE A PG29	3241081	25
WP-BASE A PG36	3241082	25

Technical data
Steel, galvanized

Ordering data

Type	Order No.	Pcs./Pkt.
WP-BASE A M16	3241083	25
WP-BASE A M20	3241084	25
WP-BASE A M25	3241085	25
WP-BASE A M32	3241086	25
WP-BASE A M40	3241087	25

Accessories for protective hose mounting



Counter nut, M12 - M40, plastic

WP-CN ...

The counter nuts are used to lock protective hose screw connections in the case of bore holes without a thread.

- Counter nuts made of brass or plastic
- The fiberglass-reinforced polyamide ensures a high degree of mechanical stability
- Metric thread in accordance with EN 50262, making the counter nut suitable for universal use

General data

Material

Technical data

Polyamide fiberglass reinforced

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Counter nut, plastic , for protective hose screw connections with metric thread				
for M12	gray	WP-CN PA M12	3241132	100
for M16	gray	WP-CN PA M16	3241133	100
for M20	gray	WP-CN PA M20	3241134	100
for M25	gray	WP-CN PA M25	3241135	100
for M32	gray	WP-CN PA M32	3241136	100
for M40	gray	WP-CN PA M40	3241137	50
Counter nut, plastic , for protective hose screw connections with Pg thread				
for Pg7	gray			
for Pg9	gray			
for Pg11	gray			
for Pg16	gray			
for Pg21	gray			
for Pg29	gray			
for Pg36	gray			
Counter nut, nickel-plated brass , for protective hose screw connections with metric thread				
for M10	silver			
for M12	silver			
for M16	silver			
for M20	silver			
for M25	silver			
for M32	silver			
for M40	silver			
Counter nut, nickel-plated brass , for protective hose screw connections with Pg thread				
for Pg7	silver			
for Pg9	silver			
for Pg11	silver			
for Pg16	silver			
for Pg21	silver			
for Pg29	silver			
for Pg36	silver			



Counter nut, Pg7 - Pg36, plastic



Counter nut, M10 - M40, brass



Counter nut, Pg7 - Pg36, brass

Technical data
Polyamide fiberglass reinforced

Ordering data

Type	Order No.	Pcs./Pkt.
WP-CN PA PG7	3241138	100
WP-CN PA PG9	3241139	100
WP-CN PA PG11	3241140	100
WP-CN PA PG16	3241141	100
WP-CN PA PG21	3241142	100
WP-CN PA PG29	3241143	100
WP-CN PA PG36	3241144	50

Technical data
Brass, nickel-plated

Ordering data

Type	Order No.	Pcs./Pkt.
WP-CN BRASS M10	3241145	100
WP-CN BRASS M12	3241146	100
WP-CN BRASS M16	3241147	100
WP-CN BRASS M20	3241148	100
WP-CN BRASS M25	3241149	100
WP-CN BRASS M32	3241150	100
WP-CN BRASS M40	3241151	50

Technical data
Brass, nickel-plated

Ordering data

Type	Order No.	Pcs./Pkt.
WP-CN BRASS PG7	3241152	100
WP-CN BRASS PG9	3241153	100
WP-CN BRASS PG11	3241154	100
WP-CN BRASS PG16	3241155	100
WP-CN BRASS PG21	3241156	100
WP-CN BRASS PG29	3241157	100
WP-CN BRASS PG36	3241158	50



Flat gasket made from Perbunan

The Perbunan flat sealing rings are used to seal protective hose screw connections on uneven surfaces. They are inserted between the hose screw connection and the surface, thereby achieving degrees of protection up to IP68.

The Centellen flat sealing rings also provide an optimum seal on uneven surfaces. As well as having IP68 protection and high mechanical stability, the sealing rings are also UV resistant and halogen-free. This enables them to be used outdoors.

Properties:

- Thanks to properties such as resistance to oil and sealing against water and dust, the Perbunan O-rings can be used in a wide range of applications.

General data			Technical data		
Material			Perbunan		
			Ordering data		
Description		Color	Type	Order No.	Pcs./Pkt.
Flat gasket, Perbunan , for protective hose screw connections with metric thread					
for M10		black	WP-FS IP68 M10	3241159	50
for M12		black	WP-FS IP68 M12	3241160	50
for M16		black	WP-FS IP68 M16	3241161	50
for M20		black	WP-FS IP68 M20	3241162	50
for M25		black	WP-FS IP68 M25	3241163	50
for M32		black	WP-FS IP68 M32	3241164	25
for M40		black	WP-FS IP68 M40	3241165	25
Flat gasket, Perbunan , for protective hose screw connections with Pg thread					
for Pg7		black	WP-FS IP68 PG7	3241166	50
for Pg9		black	WP-FS IP68 PG9	3241167	50
for Pg11		black	WP-FS IP68 PG11	3241168	50
for Pg16		black	WP-FS IP68 PG16	3241169	50
for Pg21		black	WP-FS IP68 PG21	3241170	25
for Pg29		black	WP-FS IP68 PG29	3241171	25
for Pg36		black	WP-FS IP68 PG36	3241172	25
Flat gasket, Centellen , for protective hose screw connections with metric thread					
for M10		green			
for M12		green			
for M16		green			
for M20		green			
for M25		green			
for M32		green			
for M40		green			
Flat gasket, Centellen , for protective hose screw connections with Pg thread					
for Pg7		green			
for Pg9		green			
for Pg11		green			
for Pg16		green			
for Pg21		green			
for Pg29		green			
for Pg36		green			
O-ring, Perbunan , for protective hose screw connections with metric thread					
for M10		black			
for M12		black			
for M16		black			
for M20		black			
for M25		black			
for M32		black			
for M40		black			
O-ring, Perbunan , for protective hose screw connections with Pg thread					
for Pg7		black			
for Pg9		black			
for Pg11		black			
for Pg16		black			
for Pg21		black			
for Pg29		black			
for Pg36		black			



For further information and full technical data, visit phoenixcontact.net/products

Installation and mounting material – CABINET add-on

Cable routing, cable protection, cable bundling

Plastic cable markers for insert labels, for assembly with cable ties



- Plastic cable markers mark and bundle conductors and cables indoors
- The sealing cap protects the marked insert label from contamination
- Marking service: Phoenix Contact can custom-mark many insert labels for plastic cable markers according to your requirements
- **Designation example:**
ESL (29x8)
 Lettering field width: 29 mm
 Lettering field height: 8 mm
 Type of packaging: sheet

Notes:
For corresponding cable ties, see from page 614.
The print image may vary depending on the laser printer.



For insert labels with lettering field size 29 x 8 mm, for cable diameters > 10 mm

General data
Material
Temperature range
Components

Technical data
Polyethylene
-40 ... 80
Free from silicone and halogen

Description	Color

Plastic cable markers for insert labels, with cable ties with a pointed end, can be marked with ESL..., EMT... or US-EMP... insert labels, diameter: 10 ... 25 mm, lettering field size: 29 x 8 mm

transparent

Plastic cable markers for insert labels, with cable ties with a pointed end, can be marked with ESL..., EMT... or US-EMP... insert labels, diameter: 16 ... 35 mm, lettering field size: 40 x 17 mm

transparent

Cable and conductor markers for insert labels, can be marked with EST or ESL, diameter of 1 - 12 mm, lettering field size: 24 x 4 mm

white

Cable and conductor markers for labels, can be marked with EML or EMLC, diameter of 1 - 20 mm, lettering field size: 20 x 8 mm

white

Ordering data

Type	Order No.	Pcs./Pkt.
KMK	1005208	100

Accessories

ESL 29X8	0808257	10
EMT (29X8)R	0817277	1
US-EMP (29X8)	0829436	10
TMP-US-MAG1	0803341	1

Insert strips for laser printers, DIN A4, perforated

1 sheet = 174 labels
 1 sheet = 56 labels
 1 sheet = 488 labels

Roll, insert labels, can be marked with thermal transfer printer

1 roll = 5400 markers
 1 roll = 2300 markers
 1 roll = 5000 markers

UniSheet, insert labels, can be marked with THERMOMARK PRIME, THERMOMARK CARD, BLUEMARK ID, and BLUEMARK ID COLOR

1 UniSheet = 48 labels
 1 UniSheet = 16 labels

Textile label

1 roll = 2500 labels
 1 roll = 2500 labels

UniSheet, self-adhesive labels for thermal transfer printer

1 UniSheet = 64 labels, lettering field size: 20 x 8 mm

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating all US materials





Insert label, with lettering field size
40 x 17 mm, for cable diameters > 16 mm



For insert labels with lettering field size
24 x 4 mm, for cable diameters > 1 mm



For adhesive labels, with lettering field size
20 x 8 mm, for cable diameters > 1 mm

Technical data		
Polyethylene		
-40 ... 80		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs./Pkt.

KMK 3	1005211	50

Accessories		
ESL 40X17	0808095	10

EMT (40X17)R	0817293	1
US-EMP (40X17)	0829437	10
TMP-US-MAG1	0803341	1

Technical data		
PA		
-40 ... 100		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs./Pkt.

LM	1004377	100

Accessories		
ESL 24X4	0808231	10

EMT (24X4)R	0816265	1

Technical data		
PA		
-40 ... 100		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs./Pkt.

KME	0807083	50

Accessories		

EMLC (20X8)R	0815680	1
EML (20X8)R	0816786	1
US-EML (20X8)	0800458	10
TMP-US-MAG1	0803341	1

Cable routing, cable protection, cable bundling

Plastic cable markers for insert labels, for assembly with cable ties



- KMK HP ... plastic cable markers mark and bundle conductors and cables indoors
- Flammability rating V0 in accordance with UL 94
- The KMK HP ... cable markers are particularly suitable for use in the railway industry, transportation technology, and building technology, thanks to their outstanding material properties
- The KMK ... versions have eyelets and are attached with cable ties
- The sealing cap protects the marked insert label from contamination
- Marking service: Phoenix Contact can custom-mark many insert labels for plastic cable markers according to your requirements
- The UCT sheets can also be used with the THERMOMARK CARD-UCT-MAG26 magazine in THERMOMARK CARD ...
- **Designation example:**
UCT-EMP (25x6)
 Lettering field width: 25 mm
 Lettering field height: 6 mm
 Type of packaging: sheet

Notes:

For matching cable ties, see page 588 onwards or the product area on our website at phoenixcontact.net/products.



Lettering field size: 25 x 6 mm,
for cable diameter > 6 mm

General data

Material	
Flammability rating in accordance with UL 94	
Temperature range	[°C]
Components	

Description

Cable marker carrier for cable tie assembly

transparent

UniCard, insert strip for KMK... cable marker carriers, can be marked with THERMOMARK CARD, BLUEMARK, and TOPMARK

1 sheet = 15 labels

1 sheet = 15 labels

1 sheet = 3 labels

1 sheet = 3 labels

Roll, insert labels, can be marked with THERMOMARK ROLL, THERMOMARK ROLLMASTER 300, THERMOMARK ROLLMASTER 600

1 roll = 5000 markers

1 roll = 5400 markers

1 roll = 2500 markers

1 roll = 2300 markers

Magazine for THERMOMARK CARD and THERMOMARK PRIME

for accommodating UCT-EMP ...

Technical data

PC (polycarbonate)
V0
-40 ... 125
Halogen-free

Ordering data

Type	Order No.	Pcs./Pkt.
KMK HP (25X6)	0830720	100

Accessories

UCT-EMP (25X6)	1014117	10
EMT (25X6)R	0817264	1
TMP-UCT-MAG26	0803370	1





Lettering field size: 29 x 8 mm,
for cable diameter > 6 mm



Lettering field size: 60 x 15 mm,
for cable diameter > 9 mm



Lettering field size: 40 x 17 mm,
for cable diameter > 9 mm

Technical data		
PC (polycarbonate)		
V0		
-40 ... 125		
Halogen-free		

Ordering data		
Type	Order No.	Pcs./Pkt.
KMK HP (29X8)	0830721	100

Accessories		
UCT-EMP (29X8)	1014118	10
EMT (29X8)R	0817277	1
TMP-UCT-MAG26	0803370	1

Technical data		
PC (polycarbonate)		
V0		
-40 ... 125		
Halogen-free		

Ordering data		
Type	Order No.	Pcs./Pkt.
KMK HP (60X15)	0830722	50

Accessories		
UCT-EMP (60X15)	1014119	10
EMT (60X15)R	0801846	1
TMP-UCT-MAG26	0803370	1

Technical data		
PC (polycarbonate)		
V0		
-40 ... 125		
Halogen-free		

Ordering data		
Type	Order No.	Pcs./Pkt.
KMK HP (40X17)	0830723	50

Accessories		
UCT-EMP (40X17)	1014120	10
EMT (40X17)R	0817293	1
TMP-UCT-MAG26	0803370	1

Cable routing, cable protection, cable bundling

Plastic cable markers for insert labels, for assembly with cable ties



- KMK UV ... plastic cable markers mark and bundle conductors and cables outdoors
- The KMK UV ... cable markers are transparent, impact resistant, and have excellent weathering resistance. At the same time, they also possess outstanding chemical resistance
- The KMK ... versions have eyelets and are attached with cable ties
- The sealing cap protects the marked insert label from contamination
- Marking service: Phoenix Contact can custom-mark many insert labels for plastic cable markers according to your requirements
- The UCT sheets can also be used with the THERMOMARK CARD-UCT-MAG26 magazine in THERMOMARK CARD ...
- The UniSheets can also be used with the THERMOMARK CARD-US-MAG1 magazine in THERMOMARK CARD ...
- **Designation example:**
UCT-EMP (25x6)
Lettering field width: 25 mm
Lettering field height: 6 mm
Type of packaging: roll



Notes:
For matching cable ties, see page 588 onwards or the product area on our website at phoenixcontact.net/products.
1) WT-UV HF...BK cable ties are weatherproof and UV resistant in accordance with ISO 4892 (after QUV-B 600 hours) for up to 10 years.



Lettering field size: 25 x 6 mm,
for cable diameter > 6 mm

General data
Material
Flammability rating in accordance with UL 94
Temperature range
Components

Technical data
PA
HB
-40 ... 100
Halogen-free

Description	Color
Cable marker carrier for cable tie assembly	transparent

Ordering data		
Type	Order No.	Pcs./Pkt.
KMK UV (25X6)	1014106	100

UniCard , insert strip for KMK... cable marker carriers, can be marked with THERMOMARK CARD, BLUEMARK, and TOPMARK 1 sheet = 15 labels 1 sheet = 15 labels 1 sheet = 3 labels 1 sheet = 3 labels

Accessories		
UCT-EMP (25X6)	1014117	10

UniSheet , insert labels, can be marked with THERMOMARK PRIME, THERMOMARK CARD, BLUEMARK ID, and BLUEMARK ID COLOR 1 UniSheet = 84 labels 1 UniSheet = 48 labels 1 UniSheet = 9 labels 1 UniSheet = 16 labels

US-EMP (25X6)-1	0802754	10

Roll , insert labels, can be marked with THERMOMARK ROLL, THERMOMARK ROLLMASTER 300, THERMOMARK ROLLMASTER 600 1 roll = 5000 markers 1 roll = 5400 markers 1 roll = 2500 markers 1 roll = 2300 markers

EMT (25X6)R	0817264	1

Cable tie , halogen-free, flammability rating in accordance with UL 94: V2, maximum bundle Ø [mm] / min. tensile strength [N]¹)

WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100

Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating UCT-EMP ... Magazine for THERMOMARK CARD..., for accommodating all US materials Magazine for THERMOMARK CARD and THERMOMARK PRIME for accommodating all US materials

TMP-UCT-MAG26	0803370	1
THERMOMARK CARD-US-MAG1	5146451	1
TMP-US-MAG1	0803341	1



Lettering field size: 29 x 8 mm,
for cable diameter > 6 mm



Lettering field size: 60 x 15 mm,
for cable diameter > 9 mm



Lettering field size: 40 x 17 mm,
for cable diameter > 9 mm

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs./Pkt.
KMK UV (29X8)	1014107	100

Accessories		
UCT-EMP (29X8)	1014118	10
US-EMP (29X8)	0829436	10
EMT (29X8)R	0817277	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
TMP-UCT-MAG26	0803370	1
THERMOMARK CARD-US-MAG1	5146451	1
TMP-US-MAG1	0803341	1

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs./Pkt.
KMK UV (60X15)	1014108	50

Accessories		
UCT-EMP (60X15)	1014119	10
US-EMP (60X15)	0828781	10
EMT (60X15)R	0801846	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
TMP-UCT-MAG26	0803370	1
THERMOMARK CARD-US-MAG1	5146451	1
TMP-US-MAG1	0803341	1

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs./Pkt.
KMK UV (40X17)	1014109	50

Accessories		
UCT-EMP (40X17)	1014120	10
US-EMP (40X17)	0829437	10
EMT (40X17)R	0817293	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
TMP-UCT-MAG26	0803370	1
THERMOMARK CARD-US-MAG1	5146451	1
TMP-US-MAG1	0803341	1



- For bundling and fastening conductors and cables
- Can be used indoors and outdoors even under unfavorable industrial conditions
- With the UNIFOX-CT ... cable tie tool, the cable ties are easily tightened and cut off flush in one step
- Cable ties are easy to use, thanks to their optimized geometries
- Optimum head shape for high tensile forces
- Temperature range: briefly up to 110°C
- Comprehensive approvals
- **Designation example:**
WT-HF 2,5X98
Cable tie width: 2.5 mm
Cable tie length: 98 mm

General data

Material	
Components	
Flammability rating in accordance with UL 94	
Temperature range	[°C]

PA 6.6
Free from silicone and halogen
V2
-40 ... 85

Description	Color

Cable tie, maximum bundle Ø [mm]/minimum tensile strength [N]

21 / 80	transparent
40 / 80	transparent
52 / 80	transparent
35 / 130	transparent
50 / 130	transparent
80 / 130	transparent
40 / 220	transparent
50 / 220	transparent
79 / 220	transparent
100 / 220	transparent
115 / 220	transparent
80 / 540	transparent
100 / 540	transparent
158 / 540	transparent
233 / 700	transparent
143 / 1080	transparent
302 / 1080	transparent

Cable tie, large pack, maximum bundle Ø [mm]/minimum tensile strength [N]

21 / 80	transparent
40 / 80	transparent
52 / 80	transparent
35 / 130	transparent
50 / 130	transparent
80 / 130	transparent
40 / 220	transparent
50 / 220	transparent

Cable tie tool, for plastic cable ties with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm

Professional cable tie tool, for plastic cable ties with a width of 2.2 - 4.8 mm, up to 1.6 mm material thickness

Ergonomically designed grip with comfortable tension force adjustment



Cable tie length of 98 ... 1000 mm



Technical data

PA 6.6
Free from silicone and halogen
V2
-40 ... 85

Ordering data

Type	Order No.	Pcs./Pkt.
WT-HF 2,5X98	3240732	100
WT-HF 2,6X160	3240736	100
WT-HF 2,6X200	3240740	100
WT-HF 3,6X140	3240744	100
WT-HF 3,6X200	3240748	100
WT-HF 3,6X290	3240752	100
WT-HF 4,5X160	3240756	100
WT-HF 4,5X200	3240760	100
WT-HF 4,5X290	3240764	100
WT-HF 4,5X360	3240768	100
WT-HF 4,5X430	3240770	100
WT-HF 7,8X300	3240772	100
WT-HF 7,8X365	3240774	100
WT-HF 7,8X540	3240778	100
WT-HF 9X780	3240778	100
WT-HF 12,6X850	3240730	50
WT-HF 12,6X1000	3240728	50
WT-HF 2,5X98-L	3240735	1000
WT-HF 2,6X160-L	3240739	1000
WT-HF 2,6X200-L	3240743	1000
WT-HF 3,6X140-L	3240747	1000
WT-HF 3,6X200-L	3240751	1000
WT-HF 3,6X290-L	3240755	500
WT-HF 4,5X160-L	3240759	1000
WT-HF 4,5X200-L	3240763	1000

Accessories

UNIFOX-CT 4,8	1212475	1
UNIFOX-CT 4,8P	1212609	1

Plastic cable ties



- The black cable ties are UV stabilized by adding carbon black and are suitable for use in outdoor systems in accordance with ISO 4895 (QUV-B 150 hours) for up to three years
- Temperature range: briefly up to 110°C
- Comprehensive approvals



Cable tie length of 98 ... 1000 mm



General data

Material	
Components	
Flammability rating in accordance with UL 94	
Temperature range	[°C]

Technical data

PA 6.6
Free from silicone and halogen
V2
-40 ... 85

Ordering data

Description	Color

Cable tie, maximum bundle Ø [mm]/minimum tensile strength [N]

21 / 80	black	WT-HF 2,5X98 BK
40 / 80	black	WT-HF 2,6X160 BK
52 / 80	black	WT-HF 2,6X200 BK
35 / 130	black	WT-HF 3,6X140 BK
50 / 130	black	WT-HF 3,6X200 BK
80 / 130	black	WT-HF 3,6X290 BK
40 / 220	black	WT-HF 4,5X160 BK
50 / 220	black	WT-HF 4,5X200 BK
79 / 220	black	WT-HF 4,5X290 BK
100 / 220	black	WT-HF 4,5X360 BK
115 / 220	black	WT-HF 4,5X430 BK
80 / 540	black	WT-HF 7,8X300 BK
100 / 540	black	WT-HF 7,8X365 BK
158 / 540	black	WT-HF 7,8X540 BK
233 / 700	black	WT-HF 9X780 BK
143 / 1080	black	WT-HF 12,6X850 BK
302 / 1080	black	WT-HF 12,6X1000 BK

Cable tie, large pack, maximum bundle Ø [mm]/minimum tensile strength [N]

21 / 80	black	WT-HF 2,5X98 BK-L
40 / 80	black	WT-HF 2,6X160 BK-L
52 / 80	black	WT-HF 2,6X200 BK-L
35 / 130	black	WT-HF 3,6X140 BK-L
50 / 130	black	WT-HF 3,6X200 BK-L
80 / 130	black	WT-HF 3,6X290 BK-L
40 / 220	black	WT-HF 4,5X160 BK-L
50 / 220	black	WT-HF 4,5X200 BK-L

Type	Order No.	Pcs./Pkt.

	3240733	100
	3240737	100
	3240741	100
	3240745	100
	3240749	100
	3240753	100
	3240757	100
	3240761	100
	3240765	100
	3240769	100
	3240771	100
	3240773	100
	3240775	100
	3240721	100
	3240779	100
	3240731	50
	3240729	50
	3240734	1000
	3240738	1000
	3240742	1000
	3240746	1000
	3240750	1000
	3240754	500
	3240758	1000
	3240762	1000

Accessories

Cable tie tool, for plastic cable ties with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm

Professional cable tie tool, for plastic cable ties with a width of 2.2 - 4.8 mm, up to 1.6 mm material thickness

Ergonomically designed grip with comfortable tension force adjustment

UNIFOX-CT 4,8	1212475	1
UNIFOX-CT 4,8P	1212609	1

Installation and mounting material – CABINET add-on

Cable routing, cable protection, cable bundling

Cable ties for outdoor use

- Halogen-free/silicone-free
- Constantly high temperature resistance up to 105°C



The WT-UV HF ... cable ties are specially designed for outdoor use and offer the following features:

- Weatherproof and UV resistant in accordance with ISO 4892 (QUV-B 600 hours) for up to ten years
- Cable ties are easy to use, thanks to their optimum geometries
- Optimum head shape for high tensile forces

General data

Material	PA 6.6
Components	Free from silicone and halogen
Flammability rating in accordance with UL 94	V2
Temperature range	-40 ... 105

Technical data

Material	PA 6.6
Components	Free from silicone and halogen
Flammability rating in accordance with UL 94	V2
Temperature range	-40 ... 105

Ordering data

Description	Color
Cable tie, maximum bundle Ø [mm]/minimum tensile strength [N]	
21 / 80	black
35 / 130	black
50 / 130	black
50 / 220	black
79 / 220	black
100 / 540	black

Type	Order No.	Pcs./Pkt.
WT-UV HF 2,5X98 BK	3240831	100
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 3,6X200 BK	3240833	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
WT-UV HF 7,8X365 BK	3240837	100

Cable tie length of 98 ... 365 mm

Cable ties with V0 flammability rating in accordance with UL 94



Thanks to their UL 94 V0 flammability rating and absence of halogen, the WT-HP HF ... cable ties are particularly suitable for use in the rail industry.

– Designation example:

WT-HP HF 3,6x140

Cable tie width: 3.6 mm

Cable tie length: 140 mm

General data

Material	PA 6.6
Components	Free from silicone and halogen
Flammability rating in accordance with UL 94	V0
Temperature range	-40 ... 85

Technical data

Material	PA 6.6
Components	Free from silicone and halogen
Flammability rating in accordance with UL 94	V0
Temperature range	-40 ... 85

Ordering data

Description	Color
Cable tie, flammability rating in accordance with UL 94: V0, halogen-free, temperature range: -40°C ... 85°C, maximum bundle Ø [mm]/minimum tensile strength [N]	
35 / 130	transparent
50 / 220	transparent
79 / 220	transparent

Type	Order No.	Pcs./Pkt.
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100

Cable tie length of 140 ... 290 mm

Cable ties for use at high temperatures



The WT-HT HF ... cable ties are specially designed for high-temperature applications and offer the following features:

- Constantly high temperature resistance up to 125°C and briefly up to 145°C
- Cable ties are easy to use, thanks to their optimum geometries
- Black cable ties are UV stabilized
- Special head shape for high tensile forces
- Halogen-free/silicone-free
- **Designation example:**
WT-HT HF 2,5X98
Cable tie width: 2.5 mm
Cable tie length: 98 mm



Cable tie length of 98 ... 365 mm

General data

Material	
Components	
Flammability rating in accordance with UL 94	
Temperature range	[°C]

Technical data

PA 6.6
Free from silicone and halogen
V2
-40 ... 125

Ordering data

Description	Color

Cable tie, maximum bundle Ø [mm]/minimum tensile strength [N]

21 / 80	transparent
35 / 130	transparent
50 / 130	transparent
50 / 220	transparent
79 / 220	transparent
100 / 540	transparent

Cable tie, maximum bundle Ø [mm]/minimum tensile strength [N]

21 / 80	black
35 / 130	black
50 / 130	black
50 / 220	black
79 / 220	black
100 / 540	black

Type	Order No.	Pcs./Pkt.

WT-HT HF 2,5X98	3240780	100
WT-HT HF 3,6X140	3240782	100
WT-HT HF 3,6X200	3240784	100
WT-HT HF 4,5X200	3240786	100
WT-HT HF 4,5X290	3240788	100
WT-HT HF 7,8X365	3240792	100

WT-HT HF 2,5X98 BK	3240781	100
WT-HT HF 3,6X140 BK	3240783	100
WT-HT HF 3,6X200 BK	3240785	100
WT-HT HF 4,5X200 BK	3240787	100
WT-HT HF 4,5X290 BK	3240789	100
WT-HT HF 7,8X365 BK	3240793	100

Accessories

Cable tie tool, for plastic cable ties with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm

Professional cable tie tool, for plastic cable ties with a width of 2.2 - 4.8 mm, up to 1.6 mm material thickness

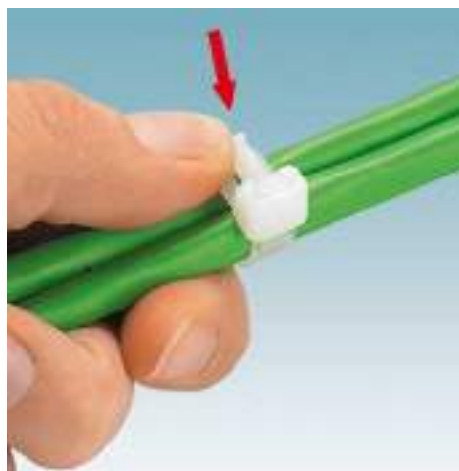
Ergonomically designed grip with comfortable tension force adjustment

UNIFOX-CT 4,8	1212475	1

UNIFOX-CT 4,8P	1212609	1



Cable ties for reopening



The WT-D HF ... cable ties are ideal for temporary mounting and offer the following features:

- Can be removed easily without tools and reused
- Cable ties are easy to use, thanks to their optimum geometries
- Halogen-free/silicone-free

General data

Material	PA 6.6
Components	Free from silicone and halogen
Flammability rating in accordance with UL 94	V2
Temperature range	-40 ... 80

Cable tie length of 200 ... 350 mm

Technical data

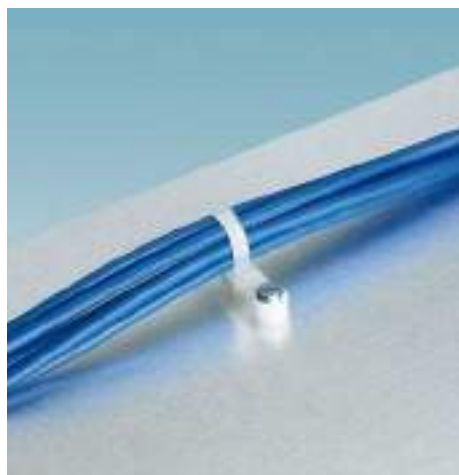
Material	PA 6.6
Components	Free from silicone and halogen
Flammability rating in accordance with UL 94	V2
Temperature range	-40 ... 80

Ordering data

Description	Color
Cable tie, maximum bundle Ø [mm]/minimum tensile strength [N]	
50 / 220	transparent
65 / 220	transparent
100 / 220	transparent
Cable tie, maximum bundle Ø [mm]/minimum tensile strength [N]	
50 / 220	black
65 / 220	black
100 / 220	black

Type	Order No.	Pcs./Pkt.
WT-D HF 7,5X200	3240712	100
WT-D HF 7,5X250	3240714	100
WT-D HF 7,5X350	3240716	100
WT-D HF 7,5X200 BK	3240713	100
WT-D HF 7,5X250 BK	3240715	100
WT-D HF 7,5X350 BK	3240717	100

Cable ties with lug for direct rivet or screw mounting



The WT-E HF ... cable ties with lug for direct mounting offer the following features:

- Space saving, thanks to molded fastening lug
- Secure hold, thanks to screw or rivet fixing
- Easy to use
- Halogen-free/silicone-free
- Optimum head shape for high tensile forces
- Temperature range: briefly up to 110°C

General data

Material	PA 6.6
Components	Free from silicone and halogen
Flammability rating in accordance with UL 94	V2
Temperature range	-40 ... 85

Cable tie length of 150 ... 380 mm

Technical data

Material	PA 6.6
Components	Free from silicone and halogen
Flammability rating in accordance with UL 94	V2
Temperature range	-40 ... 85

Ordering data

Description	Color
Cable tie, maximum bundle Ø [mm]/minimum tensile strength [N]	
32 / 130 hole diameter 4.5 mm	transparent
50 / 220 hole diameter 5.2 mm	transparent
44 / 540 hole diameter 6.5 mm	transparent
75 / 540 hole diameter 6.5 mm	transparent
104 / 540 hole diameter 6.5 mm	transparent

Type	Order No.	Pcs./Pkt.
WT-E HF 3,6X150	3240718	100
WT-E HF 4,8X200	3240720	100
WT-E HF 7,8X200	3240722	100
WT-E HF 7,8X300	3240724	100
WT-E HF 7,8X380	3240726	100

Cable ties with body-bound rivet for direct mounting



The WT-R HF ... cable ties for straightforward direct mounting offer the following features:

- Space saving, thanks to molded body-bound rivet
- Easy to plug in and optimum hold in standard drill hole
- Optimum head shape for high tensile forces
- Halogen-free/silicone-free



Cable tie length of 150 ... 200 mm

General data

Material	PA 6.6
Components	Free from silicone and halogen
Flammability rating in accordance with UL 94	V2
Temperature range	-40 ... 85

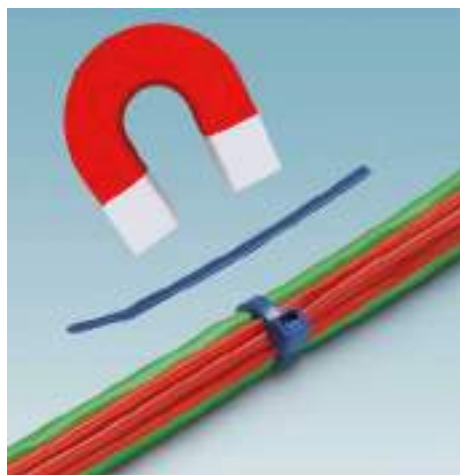
Technical data

Material	PA 6.6
Components	Free from silicone and halogen
Flammability rating in accordance with UL 94	V2
Temperature range	-40 ... 85

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Cable tie , maximum bundle Ø [mm]/minimum tensile strength [N]				
38 / 130 hole diameter 5.2 mm	transparent	WT-R HF 3,6X150	3240801	100
50 / 220 hole diameter 6.3 mm	transparent	WT-R HF 4,8X200	3240803	100

Detectable cable ties



The WT-ID HF ... cable ties are specially designed for production processes in the food, pharmaceutical and chemical industries and offer the following features:

- High level of resistance against contamination in the production process
- Detectable using X-ray units or metal detectors
- Magnetic
- Easy to see
- Corrosion-free



Cable tie length of 98 ... 365 mm

General data

Material	PA 6.6
Components	Free from silicone and halogen
Flammability rating in accordance with UL 94	V2
Temperature range	-40 ... 85

Technical data

Material	PA 6.6
Components	Free from silicone and halogen
Flammability rating in accordance with UL 94	V2
Temperature range	-40 ... 85

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Cable tie , with metal portions, maximum bundle Ø [mm]/minimum tensile strength [N]				
21 / 80	blue	WT-ID HF 2,5X98 BU	3240794	100
35 / 130	blue	WT-ID HF 3,5X140 BU	3240795	100
50 / 130	blue	WT-ID HF 3,5X200 BU	3240796	100
50 / 220	blue	WT-ID HF 4,5X200 BU	3240797	100
79 / 220	blue	WT-ID HF 4,5X290 BU	3240798	100
100 / 540	blue	WT-ID HF 7,5X365 BU	3240800	100

Installation and mounting material – CABINET add-on

Cable routing, cable protection, cable bundling

Cable ties made of stainless steel AISI 304 (V2A)



The WT-STEEL S ... cable ties are especially suited to use outdoors and in the chemical industry. They offer the following features:

- Secure, permanent attachment with long service life
- Corrosion resistant
- Chemical resistance
- UV resistant
- Weatherproof
- Fire-proof
- Vibration-resistant
- Easy to use and self-locking
- Anti-magnetic
- Halogen-free/silicone-free

Notes:

For corresponding stainless steel cable markers, see 246.



Cable tie length of 150 ... 1067 mm

Lowis
register

General data

Material	
Temperature range	[°C]

Technical data

Stainless steel 1.4301/AISI 304
-80 ... 538

Ordering data

Description	Color
Cable tie , made of stainless steel (AISI 304), width 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]	
30 / 890	silver
50 / 890	silver
69 / 890	silver
102 / 890	silver
152 / 890	silver
203 / 890	silver
254 / 890	silver
305 / 890	silver
Cable tie , made of stainless steel (AISI 304), width 7.9 mm, maximum bundle Ø [mm]/minimum tensile strength [N]	
69 / 1335	silver
102 / 1335	silver
152 / 1335	silver
203 / 1335	silver
254 / 1335	silver
305 / 1335	silver

Type	Order No.	Pcs./Pkt.
WT-STEEL S 4,6X150	3240807	100
WT-STEEL S 4,6X201	3240808	100
WT-STEEL S 4,6X259	3240809	100
WT-STEEL S 4,6X360	3240810	100
WT-STEEL S 4,6X520	3240811	100
WT-STEEL S 4,6X679	3240812	100
WT-STEEL S 4,6X838	3240723	100
WT-STEEL S 4,6X1067	3240805	100
WT-STEEL S 7,9X259	3240814	100
WT-STEEL S 7,9X360	3240815	100
WT-STEEL S 7,9X520	3240816	100
WT-STEEL S 7,9X679	3240817	100
WT-STEEL S 7,9X838	3240725	100
WT-STEEL S 7,9X1067	3240813	100

Cable tie tool, for steel cable ties with a width of up to 7.9 mm, material thickness of up to 0.3 mm

Accessories

UNIFOX-CT M 7,9	1212610	1



Cable ties made of stainless steel AISI 316 (V4A)



The WT-STEEL SH ... cable ties are particularly suitable for use with aggressive chemicals and in the onshore and offshore area. They are characterized by the following:

- Secure, permanent attachment with long service life
- Corrosion resistant when exposed to aggressive chemicals, e.g., acids, salt fog, and sea water
- UV resistant
- Weatherproof
- Fire-proof
- Vibration-resistant
- Easy to use
- Anti-magnetic
- Halogen-free/silicone-free

Notes:

For corresponding stainless steel cable markers, see 246.



Cable tie length of 150 ... 1067 mm

Trade
register

General data

Material	
Temperature range	[°C]

Technical data

Stainless steel 1.4401/AISI 316
-80 ... 538

Ordering data

Description	Color

Cable tie, made of stainless steel (AISI 316), width 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]

30 / 890	silver
50 / 890	silver
69 / 890	silver
102 / 890	silver
152 / 890	silver
203 / 890	silver
254 / 890	silver
305 / 890	silver

Cable tie, made of stainless steel (AISI 316), width 7.9 mm, maximum bundle Ø [mm]/minimum tensile strength [N]

69 / 1335	silver
102 / 1335	silver
152 / 1335	silver
203 / 1335	silver
254 / 1335	silver
305 / 1335	silver

Type	Order No.	Pcs./Pkt.
WT-STEEL SH 4,6X150	3240820	100
WT-STEEL SH 4,6X201	3240821	100
WT-STEEL SH 4,6X259	3240822	100
WT-STEEL SH 4,6X360	3240823	100
WT-STEEL SH 4,6X520	3240824	100
WT-STEEL SH 4,6X679	3240825	100
WT-STEEL SH 4,6X838	3240727	100
WT-STEEL SH 4,6X1067	3240818	100
WT-STEEL SH 7,9X259	3240827	100
WT-STEEL SH 7,9X360	3240828	100
WT-STEEL SH 7,9X520	3240829	100
WT-STEEL SH 7,9X679	3240830	100
WT-STEEL SH 7,9X838	3240766	100
WT-STEEL SH 7,9X1067	3240826	100

Cable tie tool, for steel cable ties with a width of up to 7.9 mm, material thickness of up to 0.3 mm

Accessories

UNIFOX-CT M 7,9	1212610	1

Installation and mounting material – CABINET add-on

Cable routing, cable protection, cable bundling

Cable tie base, self-adhesive and/or screwable



The WT-BASE LS ... cable tie bases are characterized by their excellent adhesive properties as well as the following:

- Easy to use
- Cable ties can be fed through on four sides
- Self-adhesive and optionally screwable
- Secure hold, load can be applied after just a few minutes
- Halogen-free/silicone-free



Cable tie base,
for cable tie width up to 4 (6) mm

General data

Material	ABS
Flammability rating in accordance with UL 94	HB
Temperature range	-40 ... 60 [°C]

Technical data

Material	ABS
Flammability rating in accordance with UL 94	HB
Temperature range	-40 ... 60 [°C]

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Cable tie base , for cable ties of up to 4 mm width, self-adhesive and screwable, 4 mm fixing hole, dimensions: 19 x 19 mm	transparent black	WT-BASE LS HF 4 WT-BASE LS HF 4 BK	3240706 3240707	100 100
Cable tie base , for cable ties of up to 6 mm width, self-adhesive and screwable, 4.8 mm fixing hole, dimensions: 27 x 27 mm	transparent black	WT-BASE LS HF 6 WT-BASE LS HF 6 BK	3240708 3240709	100 100

Cable tie base, screwable



- Space-saving design
- Easy to use
- Cable ties can be fed through on two sides
- Halogen-free/silicone-free



Cable tie base,
for cable tie width from 5 (9) mm

General data

Material	PA 6.6
Flammability rating in accordance with UL 94	V2
Temperature range	-40 ... 85 [°C]

Technical data

Material	PA 6.6
Flammability rating in accordance with UL 94	V2
Temperature range	-40 ... 85 [°C]

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Cable tie base , for cable ties of up to 5 mm width, screwable, 3.5 mm fixing hole, dimensions: 9.5 x 15 mm	transparent black	WT-BASE HF 5 WT-BASE HF 5 BK	3240702 3240703	100 100
Cable tie base , for cable ties of up to 9 mm width, screwable, 5 mm fixing hole, dimensions: 14.6 x 22 mm	transparent black	WT-BASE HF 9 WT-BASE HF 9 BK	3240704 3240705	100 100

Cable tie base for direct mounting

- WT-BASE R ... with molded body-bound rivet for direct mounting in materials of up to 3 mm thickness
- WT-BASE P ... is ideally suited to use in solid panels
- Easy to use, can be directly knocked into the panel



Cable tie base,
for cable tie width up to 8 mm



Cable tie base,
for cable tie width up to 9.5 mm

General data

Material
Flammability rating in accordance with UL 94
Temperature range [°C]

PA 6.6
V2
-40 ... 85

Technical data

Ordering data

Description Color

Cable tie base, for cable ties of up to 8 mm width, with molded body-bound rivet, 6.5 mm drilling diameter

transparent

Cable tie base, for cable ties of up to 9.5 mm width, with fins, 8 mm drilling diameter, can be knocked in

black

Type Order No. Pcs./Pkt.

WT-BASE R HF 8

3240711

100

Technical data

PA 6
HB
-10 ... 65

Ordering data

Type Order No. Pcs./Pkt.

WT-BASE P HF 9,5 BK

3240710

100

Cable drillers, for fast and tool-free bundling of conductors and cables



- Fast and easy to use
- Can be removed again
- Reusable
- Tool-free mounting
- Ideal for temporary bundling
- Halogen-free/silicone-free



Cable driller,
bundle diameter from 5.1 to 20.3 mm

General data

Material
Flammability rating in accordance with UL 94
Temperature range [°C]

PA 6.6
V2
-40 ... 85

Technical data

Ordering data

Description Color

Cable driller

Bundle diameters 5.1 - 7.6 mm transparent
Bundle diameters 7.6 - 10.2 mm transparent
Bundle diameters 10.2 - 12.7 mm transparent
Bundle diameters 12.7 - 16 mm transparent
Bundle diameters 16 - 20.3 mm transparent

Cable driller

Bundle diameters 5.1 - 7.6 mm black
Bundle diameters 7.6 - 10.2 mm black
Bundle diameters 10.2 - 12.7 mm black
Bundle diameters 12.7 - 16 mm black
Bundle diameters 16 - 20.3 mm black

Type Order No. Pcs./Pkt.

WG-D HF 7,6

3241099

500

WG-D HF 10,2

3241101

500

WG-D HF 12,7

3241103

500

WG-D HF 16

3241105

500

WG-D HF 20,3

3241107

1000

WG-D HF 7,6 BK

3241100

500

WG-D HF 10,2 BK

3241102

500

WG-D HF 12,7 BK

3241104

500

WG-D HF 16 BK

3241106

500

WG-D HF 20,3 BK

3241108

1000



i Your web code: **#0140**



Ex stainless steel empty enclosures

The stainless steel Ex enclosure product range provides comprehensive protection for your applications in industrial environments and in process technology. The product range consists of standardized enclosures in sizes up to 1000 mm x 1000 mm x 300 mm. On request, we can expand the enclosures into ATEX- and IECEx-approved junction boxes.



Ex polyester empty enclosures

The comprehensive range of polyester Ex enclosures provides comprehensive protection for your applications in Ex areas. On request, we can expand the enclosures into ATEX- and IECEx-approved junction boxes.



Polyester empty enclosures

The extensive standard polyester enclosure range provides robust standard enclosures for industrial environments as well as for non-potentially explosive areas in the process industry. The enclosures are expanded in line with your requirements into junction boxes and control boxes.



Empty enclosures

Select the ideal enclosure for your application. Custom dimensions and surface treatments are available on request. For applications in the Ex area, the enclosures are supplied with corresponding component approval in accordance with ATEX or IECEx.



Empty enclosures customized according to customer specifications

We can customize the enclosures according to your specifications with threads, bore holes, and rectangular cutouts. The Ex standards in accordance with ATEX and IECEx are taken into consideration. The enclosures are supplied with corresponding component approval.



Junction boxes assembled according to customer specifications

If desired, you can obtain the CLIPSAFE empty enclosure completely equipped with components and cable glands. For use in potentially explosive areas, the junction boxes are supplied with corresponding equipment approval in accordance with ATEX and IECEx.



Customer-specific solutions

To obtain a quick quote for your customized junction box and enclosure solution, please fill out the request form on the website. You can easily describe your requirements using the form. We will then prepare an individual quote based on the information provided. Just enter the web code into the search field on our website.

i Your web code: **#0851**

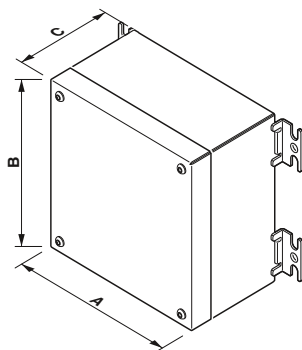
Find out more with the web code

Detailed information on these products can be found on our website.

Simply enter # and numbers in the search field.



- Defined stops and the special design of the seal support ensure optimum seal compression. They thereby satisfy the high requirements in terms of sealing for the housing
- As of 160 mm depth (C), four housing sides can be assembled with flange plates
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing has a large mounting opening for convenient assembly of the terminal boxes. The flat seal edge protects against injury during installation and when carrying out maintenance and servicing



**Depth of 80 mm and 100 mm,
housing with cover screwed in place,
without flange, without mounting plate**

Ex:  EAC Ex  
Baseefa14ATEX0393U

Silicon
Fixing angle with mounting screws, M12 grounding bolts,
affixed externally. Installation notes

Sealing material	
Scope of supply	
Degree of protection	
Impact strength	[J]
Surface characteristics	
Temperature resistance	[°C]
Type of locking	
Housing fixing	
Material thickness	[mm]

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see “Equipment marking” section

Baseefa 14 ATEX 0393U

IECE_x BAS 14.0179U

II 2 G Ex e IIC Gb

II 2 D Ex tb IIIC Db

-55°C ≤ Ta ≤ +135°C Type IP66

Note: for customer-specific Ex terminal boxes, use the request form on the website, and specify web code:

#0851

Notes:

Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at www.phoenixcontact.net/products.

Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at www.phoenixcontact.net/products.

In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.

1) Matching stainless steel labels: EMP-V4A Lid-S - 0839005 and EMP-V4A Lid-S CUS - 0839006.

Description	Dimension A x B x C [mm]
Terminal box , stainless steel AISI 316 L / 1.4404, without mounting plate	100 x 100 x 80
	150 x 100 x 80
	200 x 100 x 80
	120 x 120 x 100
Terminal box , stainless steel AISI 316 L / 1.4404, with mounting plate	150 x 150 x 80
	200 x 150 x 80
	300 x 150 x 80
	400 x 150 x 80
	200 x 200 x 80
	300 x 200 x 80
	150 x 150 x 100
	200 x 200 x 120
	300 x 200 x 120
	400 x 200 x 120
	600 x 200 x 120
	200 x 300 x 120
	300 x 300 x 120
Terminal box , stainless steel AISI 304 / 1.4301, without mounting plate	100 x 100 x 80
	150 x 100 x 80
	200 x 100 x 80
	120 x 120 x 100
Terminal box , stainless steel AISI 304 / 1.4301, with mounting plate	150 x 150 x 80
	200 x 150 x 80
	300 x 150 x 80
	400 x 150 x 80
	200 x 200 x 80
	300 x 200 x 80
	150 x 150 x 100
	200 x 200 x 120
	200 x 300 x 120
	300 x 200 x 120
	300 x 300 x 120
	400 x 200 x 120
	600 x 200 x 120

Ordering data

Type	Order No.	Pcs./Pkt.
E S6 A 100X100X80	0899000	1
E S6 A 150X100X80	0899001	1
E S6 A 200X100X80	0899002	1
E S6 A 120X120X100	0899009	1
E S4 A 100X100X80	0899550	1
E S4 A 150X100X80	0899551	1
E S4 A 200X100X80	0899552	1
E S4 A 120X120X100	0899559	1

Accessories

Stainless steel label , unmarked, 70 x 50 x 1 mm	silver	EMP-V4A CS LID-S	0839005	10



Depth of 80 mm,
housing with cover screwed in place,
without flange, with mounting plate

Ex: EAC Ex IEC ATEX
Baseefa14ATEX0393U



Depth of 100 mm,
housing with cover screwed in place,
without flange, with mounting plate

Ex: EAC Ex IEC ATEX
Baseefa14ATEX0393U



Depth of 120 mm,
housing with cover screwed in place,
without flange, with mounting plate

Ex: EAC Ex IEC ATEX
Baseefa14ATEX0393U

Technical data

Silicon
Mounting plate, Fixing angle with mounting screws,
M12 grounding bolts, affixed externally, Installation notes

IP66
7
Brushed, 240 grain
-55 ... 135
Screw-on cover, Allen screws
External fixing clips
1.5

Technical data

Silicon
Mounting plate, Fixing angle with mounting screws,
M12 grounding bolts, affixed externally, Installation notes

IP66
7
Brushed, 240 grain
-55 ... 135
Screw-on cover, Allen screws
External fixing clips
1.5

Technical data

Silicon
Mounting plate, Fixing angle with mounting screws,
M12 grounding bolts, affixed externally, Installation notes

IP66
7
Brushed, 240 grain
-55 ... 135
Screw-on cover, Allen screws
External fixing clips
1.5

Ordering data

Type	Order No.	Pcs./Pkt.
E S6 A 150X150X80 ¹⁾	0899003	1
E S6 A 200X150X80 ¹⁾	0899004	1
E S6 A 300X150X80 ¹⁾	0899005	1
E S6 A 400X150X80 ¹⁾	0899006	1
E S6 A 200X200X80	0899007	1
E S6 A 300X200X80	0899008	1

Ordering data

Type	Order No.	Pcs./Pkt.
E S6 A 150X150X100	0899010	1

Ordering data

Type	Order No.	Pcs./Pkt.
E S6 A 200X200X120	0899011	1
E S6 A 300X200X120	0899012	1
E S6 A 400X200X120	0899013	1
E S6 A 600X200X120	0899014	1
E S6 A 200X300X120	0899015	1
E S6 A 300X300X120	0899016	1

E S4 A 150X150X80	0899553	1
E S4 A 200X150X80	0899554	1
E S4 A 300X150X80	0899555	1
E S4 A 400X150X80	0899556	1
E S4 A 200X200X80	0899557	1
E S4 A 300X200X80	0899558	1

E S4 A 150X150X100	0899560	1

E S4 A 200X200X120	0899561	1
E S4 A 200X300X120	0899565	1
E S4 A 300X200X120	0899562	1
E S4 A 300X300X120	0899566	1
E S4 A 400X200X120	0899563	1
E S4 A 600X200X120	0899564	1

Accessories

EMP-V4A CS LID	0839003	10

Accessories

EMP-V4A CS LID	0839003	10

Accessories

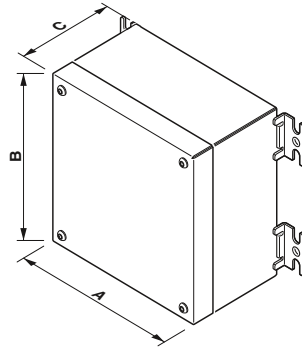
EMP-V4A CS LID	0839003	10

Installation and mounting material – CABINET add-on

Ex stainless steel empty enclosures

Empty enclosure, depth of 160 mm

- Defined stops and the special design of the seal support ensure optimum seal compression. They thereby satisfy the high requirements in terms of sealing for the housing
- As of 160 mm depth (C), four housing sides can be assembled with flange plates
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing has a large mounting opening for convenient assembly of the terminal boxes. The flat seal edge protects against injury during installation and when carrying out maintenance and servicing



Depth of 160 mm, housing with cover screwed in place, without flange, with mounting plate

Ex: Ex EAC Ex IEC
Baseefa14ATEX0393U

Technical data

Silicon
Mounting plate, Fixing angle with mounting screws,
M12 grounding bolts, affixed externally, Installation notes

Sealing material
Scope of supply

Degree of protection
Impact strength
Surface characteristics
Temperature resistance
Type of locking

IP66
7
Brushed, 240 grain
-55 ... 135
Screw-on cover, Allen screws

Housing fixing
Material thickness

External fixing clips
1.5

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see "Equipment marking" section

Marking

Baseefa 14 ATEX 0393U

IECEx BAS 14.0179U

Ex II 2 G Ex e IIC Gb

Ex II 2 D Ex tb IIC Db

-55°C ≤ Ta ≤ +135°C Type IP66

Note: for customer-specific Ex terminal boxes, use the request form on the website, and specify web code:

#0851

Notes:

Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at www.phoenixcontact.net/products.

Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at www.phoenixcontact.net/products.

In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.

Description	Dimension A x B x C [mm]
Terminal box, stainless steel AISI 316 L / 1.4404, with mounting plate	200 x 200 x 160
	260 x 260 x 160
	400 x 260 x 160
	200 x 300 x 160
	300 x 300 x 160
	400 x 300 x 160
	260 x 380 x 160
	380 x 380 x 160
	500 x 400 x 160
	382 x 458 x 160
	480 x 480 x 160
	300 x 500 x 160
	400 x 500 x 160
	350 x 500 x 160
	450 x 620 x 160
Terminal box, stainless steel AISI 304 / 1.4301, with mounting plate	200 x 200 x 160
	200 x 300 x 160
	260 x 260 x 160
	260 x 380 x 160
	300 x 300 x 160
	300 x 500 x 160
	350 x 500 x 160
	380 x 380 x 160
	382 x 458 x 160
	400 x 260 x 160
	400 x 300 x 160
	400 x 500 x 160
	450 x 620 x 160
	480 x 480 x 160
	500 x 400 x 160

Ordering data

Type	Order No.	Pcs./Pkt.
E S6 A 200X200X160	0899017	1
E S6 A 260X260X160	0899019	1
E S6 A 400X260X160	0899021	1
E S6 A 200X300X160	0899023	1
E S6 A 300X300X160	0899025	1
E S6 A 400X300X160	0899027	1
E S6 A 260X380X160	0899029	1
E S6 A 380X380X160	0899031	1
E S6 A 500X400X160	0899033	1
E S6 A 382X458X160	0899035	1
E S6 A 480X480X160	0899037	1
E S6 A 300X500X160	0899039	1
E S6 A 400X500X160	0899041	1
E S6 A 350X500X160	0899043	1
E S6 A 450X620X160	0899045	1
E S4 A 200X200X160	0899567	1
E S4 A 200X300X160	0899579	1
E S4 A 260X260X160	0899571	1
E S4 A 260X380X160	0899591	1
E S4 A 300X300X160	0899583	1
E S4 A 300X500X160	0899611	1
E S4 A 350X500X160	0899619	1
E S4 A 380X380X160	0899595	1
E S4 A 382X458X160	0899603	1
E S4 A 400X260X160	0899575	1
E S4 A 400X300X160	0899587	1
E S4 A 400X500X160	0899615	1
E S4 A 450X620X160	0899623	1
E S4 A 480X480X160	0899607	1
E S4 A 500X400X160	0899599	1

Accessories

Torque screwdriver , adjustable from 3 - 6 Nm	black
Screw bit , hexagonal, E6.3-1/4" drive, hardened, suitable for holder in accordance with DIN 3126-F 6.3/ISO 1173, size: hex 3 x 50 mm	silver
Size: hex 4 x 50 mm	silver
Stainless steel label , unmarked, 70 x 50 x 1 mm	silver

TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10



Depth of 160 mm, housing with cover screwed in place, with flange plates on the bottom, with mounting plate

Ex:
Baseefa14ATEX0393U

Technical data

Silicon
Mounting plate, Fixing angle with mounting screws, M12 grounding bolts, affixed externally, Installation notes, Flange plates

IP66
7
Brushed, 240 grain
-55 ... 135
Screw-on cover, Allen screws
External fixing clips
1.5

Ordering data

Type	Order No.	Pcs./Pkt.
E1 S6 A 200X200X160	0899018	1
E1 S6 A 260X260X160	0899020	1
E1 S6 A 400X260X160	0899022	1
E1 S6 A 200X300X160	0899024	1
E1 S6 A 300X300X160	0899026	1
E1 S6 A 400X300X160	0899028	1
E1 S6 A 260X380X160	0899030	1
E1 S6 A 380X380X160	0899032	1
E1 S6 A 500X400X160	0899034	1
E1 S6 A 382X458X160	0899036	1
E1 S6 A 480X480X160	0899038	1
E1 S6 A 300X500X160	0899040	1
E1 S6 A 400X500X160	0899042	1
E1 S6 A 350X500X160	0899044	1
E1 S6 A 450X620X160	0899046	1
E1 S4 A 200X200X160	0899568	1
E1 S4 A 200X300X160	0899580	1
E1 S4 A 260X260X160	0899572	1
E1 S4 A 260X380X160	0899592	1
E1 S4 A 300X300X160	0899584	1
E1 S4 A 300X500X160	0899612	1
E1 S4 A 350X500X160	0899620	1
E1 S4 A 380X380X160	0899596	1
E1 S4 A 382X458X160	0899604	1
E1 S4 A 400X260X160	0899576	1
E1 S4 A 400X300X160	0899588	1
E1 S4 A 400X500X160	0899616	1
E1 S4 A 450X620X160	0899624	1
E1 S4 A 480X480X160	0899608	1
E1 S4 A 500X400X160	0899600	1

Accessories

TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10



Depth of 160 mm, cabinet with door hinge, without flange, with mounting plate

Ex:
Baseefa14ATEX0393U

Technical data

Silicon
Door hinge with quarter turn locking, Mounting plate, Double-bit key, Fixing angle with mounting screws, M12 grounding bolts, affixed externally, Installation notes

IP66
7
Brushed, 240 grain
-55 ... 135
Door with replaceable hinge, Quarter turn locking with two-way key bit
External fixing clips
1.5

Ordering data

Type	Order No.	Pcs./Pkt.
C S6 A 200X200X160	0899047	1
C S6 A 260X260X160	0899049	1
C S6 A 400X260X160	0899051	1
C S6 A 200X300X160	0899053	1
C S6 A 300X300X160	0899055	1
C S6 A 400X300X160	0899057	1
C S6 A 260X380X160	0899059	1
C S6 A 380X380X160	0899061	1
C S6 A 500X400X160	0899063	1
C S6 A 382X458X160	0899065	1
C S6 A 480X480X160	0899067	1
C S6 A 300X500X160	0899069	1
C S6 A 400X500X160	0899071	1
C S6 A 350X500X160	0899073	1
C S6 A 450X620X160	0899075	1
C S4 A 200X200X160	0899569	1
C S4 A 200X300X160	0899581	1
C S4 A 260X260X160	0899573	1
C S4 A 260X380X160	0899593	1
C S4 A 300X300X160	0899585	1
C S4 A 300X500X160	0899613	1
C S4 A 350X500X160	0899621	1
C S4 A 380X380X160	0899597	1
C S4 A 382X458X160	0899605	1
C S4 A 400X260X160	0899577	1
C S4 A 400X300X160	0899589	1
C S4 A 400X500X160	0899617	1
C S4 A 450X620X160	0899625	1
C S4 A 480X480X160	0899609	1
C S4 A 500X400X160	0899601	1

Accessories

TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10



Depth of 160 mm, cabinet with door hinge, with flange plates below, with mounting plate

Ex:
Baseefa14ATEX0393U

Technical data

Silicon
Door hinge with quarter turn locking, Mounting plate, Double-bit key, Fixing angle with mounting screws, M12 grounding bolts, affixed externally, Installation notes, Flange plates

IP66
7
Brushed, 240 grain
-55 ... 135
Door with replaceable hinge, Quarter turn locking with two-way key bit
External fixing clips
1.5

Ordering data

Type	Order No.	Pcs./Pkt.
C1 S6 A 200X200X160	0899048	1
C1 S6 A 260X260X160	0899050	1
C1 S6 A 400X260X160	0899052	1
C1 S6 A 200X300X160	0899054	1
C1 S6 A 300X300X160	0899056	1
C1 S6 A 400X300X160	0899058	1
C1 S6 A 260X380X160	0899060	1
C1 S6 A 380X380X160	0899062	1
C1 S6 A 500X400X160	0899064	1
C1 S6 A 382X458X160	0899066	1
C1 S6 A 480X480X160	0899068	1
C1 S6 A 300X500X160	0899070	1
C1 S6 A 400X500X160	0899072	1
C1 S6 A 350X500X160	0899074	1
C1 S6 A 450X620X160	0899076	1
C1 S4 A 200X200X160	0899570	1
C1 S4 A 200X300X160	0899582	1
C1 S4 A 260X260X160	0899574	1
C1 S4 A 260X380X160	0899594	1
C1 S4 A 300X300X160	0899586	1
C1 S4 A 300X500X160	0899614	1
C1 S4 A 350X500X160	0899622	1
C1 S4 A 380X380X160	0899598	1
C1 S4 A 382X458X160	0899606	1
C1 S4 A 400X260X160	0899578	1
C1 S4 A 400X300X160	0899590	1
C1 S4 A 400X500X160	0899618	1
C1 S4 A 450X620X160	0899626	1
C1 S4 A 480X480X160	0899610	1
C1 S4 A 500X400X160	0899602	1

Accessories

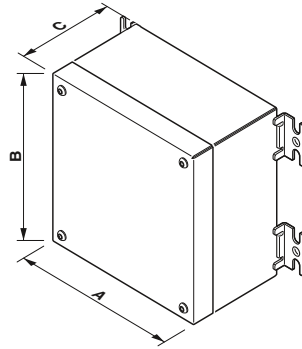
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

Installation and mounting material – CABINET add-on

Ex stainless steel empty enclosures

Terminal boxes, depth of 200 mm

- Defined stops and the special design of the seal support ensure optimum seal compression. They thereby satisfy the high requirements in terms of sealing for the housing
- As of 160 mm depth (C), four housing sides can be assembled with flange plates
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing has a large mounting opening for convenient assembly of the terminal boxes. The flat seal edge protects against injury during installation and when carrying out maintenance and servicing



Depth of 200 mm, housing with cover screwed in place, without flange plates, with mounting plate

Ex: EAC Ex IEC ATEX
Baseefa14ATEX0393U

Technical data

Silicon
Mounting plate, Fixing angle with mounting screws,
M12 grounding bolts, affixed externally, Installation notes

Sealing material
Scope of supply

Degree of protection
Impact strength
Surface characteristics
Temperature resistance
Type of locking

IP66
7
Brushed, 240 grain
-55 ... 135
Screw-on cover, Allen screws

Housing fixing
Material thickness

External fixing clips
1.5

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see "Equipment marking" section

Marking

Baseefa 14 ATEX 0393U

IECEX BAS 14.0179U

II 2 G Ex e IIC Gb

II 2 D Ex tb IIIC Db

-55°C ≤ Ta ≤ +135°C Type IP66

Note: for customer-specific Ex terminal boxes, use the request form on the website, and specify web code:

#0851

Notes:

Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at www.phoenixcontact.net/products.

Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at www.phoenixcontact.net/products.

In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.

Description	Dimension A x B x C [mm]
Terminal box , stainless steel AISI 316L / 1.4404, with cover screwed in place	260 x 300 x 200
	300 x 300 x 200
	300 x 400 x 200
	400 x 400 x 200
Terminal box , stainless steel AISI 316L / 1.4404, with door and twist lock	260 x 300 x 200
	300 x 300 x 200
	600 x 400 x 200
Terminal box , stainless steel AISI 304 / 1.4301, with cover screwed in place	260 x 300 x 200
	300 x 300 x 200
	300 x 400 x 200
	400 x 400 x 200
Terminal box , stainless steel AISI 304 / 1.4301, with door and twist lock	260 x 300 x 200
	300 x 300 x 200
	600 x 400 x 200

Torque screwdriver , adjustable from 3 - 6 Nm	black
Screw bit , hexagonal, E6.3-1/4" drive, hardened, suitable for holder in accordance with DIN 3126-F 6.3/ISO 1173, size: hex 3 x 50 mm	silver
Size: hex 4 x 50 mm	silver
Stainless steel label , unmarked, 70 x 50 x 1 mm	silver

Ordering data

Type	Order No.	Pcs./Pkt.
E S6 A 260X300X200	0899077	1
E S6 A 300X300X200	0899078	1
E S6 A 300X400X200	0899079	1
E S6 A 400X400X200	0899080	1
E S4 A 260X300X200	0899627	1
E S4 A 300X300X200	0899629	1
E S4 A 300X400X200	0899631	1
E S4 A 400X400X200	0899632	1

Accessories

TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10



Depth of 200 mm, cabinet with door hinge,
without flange plates, with mounting plate



Ex: EAC Ex IEC Ex
Baseefa14ATEX0393U

Technical data

Silicon
Door hinge with quarter turn locking, Mounting plate, Double-bit key,
Fixing angle with mounting screws, M12 grounding bolts,
affixed externally, Installation notes

IP66
7
Brushed, 240 grain
-55 ... 135
Door with replaceable hinge, Quarter turn locking with
two-way key bit
External fixing clips
1.5

Ordering data

Type	Order No.	Pcs./Pkt.
C S6 A 260X300X200	0899081	1
C S6 A 300X300X200	0899082	1
C S6 A 600X400X200	0899083	1
C S4 A 260X300X200	0899628	1
C S4 A 300X300X200	0899630	1
C S4 A 600X400X200	0899633	1

Accessories

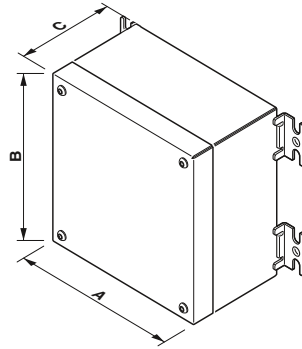
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

Installation and mounting material – CABINET add-on

Ex stainless steel empty enclosures

Empty enclosure, depth of 210 mm

- Defined stops and the special design of the seal support ensure optimum seal compression. They thereby satisfy the high requirements in terms of sealing for the housing
- As of 160 mm depth (C), four housing sides can be assembled with flange plates
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing has a large mounting opening for convenient assembly of the terminal boxes. The flat seal edge protects against injury during installation and when carrying out maintenance and servicing



Depth of 210 mm, cabinet with door hinge, without flange plates, with mounting plate

Ex:
Baseefa14ATEX0393U

Technical data

Silicon
Door hinge with quarter turn locking, Mounting plate, Double-bit key, Fixing angle with mounting screws, M12 grounding bolts, affixed externally, Installation notes

Sealing material
Scope of supply

Degree of protection IP66
Impact strength [J] 7
Surface characteristics Brushed, 240 grain
Temperature resistance [°C] -55 ... 135
Type of locking Door with replaceable hinge, Quarter turn locking with two-way key bit
Housing fixing External fixing clips
Material thickness [mm] 1.5

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see “Equipment marking” section

Marking

Baseefa 14 ATEX 0393U

IECEx BAS 14.0179U

II 2 G Ex e IIC Gb

II 2 D Ex tb IIIC Db

-55°C ≤ Ta ≤ +135°C Type IP66

Note: for customer-specific Ex terminal boxes, use the request form on the website, and specify web code:

#0851

Notes:
Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at www.phoenixcontact.net/products .
Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at www.phoenixcontact.net/products .
In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.

Description	Dimension A x B x C [mm]
Terminal box, stainless steel AISI 316L / 1.4404, with door and twist lock	260 x 260 x 210
	300 x 300 x 210
	260 x 380 x 210
	600 x 400 x 210
	382 x 458 x 210
	480 x 480 x 210
	350 x 500 x 210
	600 x 600 x 210
	450 x 620 x 210
	550 x 740 x 210
	508 x 762 x 210
	640 x 860 x 210
	610 x 914 x 210
	740 x 980 x 210
Terminal box, stainless steel AISI 304 / 1.4301, with door and twist lock	260 x 260 x 210
	260 x 380 x 210
	300 x 300 x 210
	350 x 500 x 210
	382 x 458 x 210
	450 x 620 x 210
	480 x 480 x 210
	508 x 762 x 210
	550 x 740 x 210
	600 x 400 x 210
	600 x 600 x 210
	610 x 914 x 210
	640 x 860 x 210
	740 x 980 x 210

Ordering data

Type	Order No.	Pcs./Pkt.
C S6 A 260X260X210	0899084	1
C S6 A 300X300X210	0899087	1
C S6 A 260X380X210	0899090	1
C S6 A 600X400X210	0899093	1
C S6 A 382X458X210	0899096	1
C S6 A 480X480X210	0899099	1
C S6 A 350X500X210	0899102	1
C S6 A 600X600X210	0899105	1
C S6 A 450X620X210	0899108	1
C S6 A 550X740X210	0899111	1
C S6 A 508X762X210	0899114	1
C S6 A 640X860X210	0899117	1
C S6 A 610X914X210	0899120	1
C S6 A 740X980X210	0899123	1
C S4 A 260X260X210	0899634	1
C S4 A 260X380X210	0899640	1
C S4 A 300X300X210	0899637	1
C S4 A 350X500X210	0899652	1
C S4 A 382X458X210	0899646	1
C S4 A 450X620X210	0899658	1
C S4 A 480X480X210	0899649	1
C S4 A 508X762X210	0899664	1
C S4 A 550X740X210	0899661	1
C S4 A 600X400X210	0899643	1
C S4 A 600X600X210	0899655	1
C S4 A 610X914X210	0899670	1
C S4 A 640X860X210	0899667	1
C S4 A 740X980X210	0899673	1

Accessories

Torque screwdriver , adjustable from 3 - 6 Nm	black
Screw bit , hexagonal, E6.3-1/4" drive, hardened, suitable for holder in accordance with DIN 3126-F 6.3/ISO 1173, size: hex 3 x 50 mm	silver
Size: hex 4 x 50 mm	silver
Stainless steel label , unmarked, 70 x 50 x 1 mm	silver

TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10



Depth of 210 mm, cabinet with door hinge, with flange plates below, with mounting plate



Depth of 210 mm, cabinet with door hinge, with flange plates below, left and right, with mounting plate

Ex: EAC Ex
Baseefa14ATEX0393U

Ex:
Baseefa14ATEX0393U

Technical data

Silicon
Door hinge with quarter turn locking, Mounting plate, Double-bit key, Fixing angle with mounting screws, M12 grounding bolts, affixed externally, Installation notes, Flange plates

IP66
7
Brushed, 240 grain
-55 ... 135
Door with replaceable hinge, Quarter turn locking with two-way key bit
External fixing clips
1.5

Technical data

Silicon
Door hinge with quarter turn locking, Mounting plate, Double-bit key, Fixing angle with mounting screws, M12 grounding bolts, affixed externally, Installation notes

IP66
7
Brushed, 240 grain
-55 ... 135
Door with replaceable hinge, Quarter turn locking with two-way key bit
External fixing clips
1.5

Ordering data

Type	Order No.	Pcs./Pkt.
C1 S6 A 260X260X210	0899085	1
C1 S6 A 300X300X210	0899088	1
C1 S6 A 260X380X210	0899091	1
C1 S6 A 600X400X210	0899094	1
C1 S6 A 382X458X210	0899097	1
C1 S6 A 480X480X210	0899100	1
C1 S6 A 350X500X210	0899103	1
C1 S6 A 600X600X210	0899106	1
C1 S6 A 450X620X210	0899109	1
C1 S6 A 550X740X210	0899112	1
C1 S6 A 508X762X210	0899115	1
C1 S6 A 640X860X210	0899118	1
C1 S6 A 610X914X210	0899121	1
C1 S6 A 740X980X210	0899124	1
C1 S4 A 260X260X210	0899635	1
C1 S4 A 260X380X210	0899641	1
C1 S4 A 300X300X210	0899638	1
C1 S4 A 350X500X210	0899653	1
C1 S4 A 382X458X210	0899647	1
C1 S4 A 450X620X210	0899659	1
C1 S4 A 480X480X210	0899650	1
C1 S4 A 508X762X210	0899665	1
C1 S4 A 550X740X210	0899662	1
C1 S4 A 600X400X210	0899644	1
C1 S4 A 600X600X210	0899656	1
C1 S4 A 610X914X210	0899671	1
C1 S4 A 640X860X210	0899668	1
C1 S4 A 740X980X210	0899674	1

Accessories

TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

Ordering data

Type	Order No.	Pcs./Pkt.
C3 S6 A 260X260X210	0899086	1
C3 S6 A 300X300X210	0899089	1
C3 S6 A 260X380X210	0899092	1
C3 S6 A 600X400X210	0899095	1
C3 S6 A 382X458X210	0899098	1
C3 S6 A 480X480X210	0899101	1
C3 S6 A 350X500X210	0899104	1
C3 S6 A 600X600X210	0899107	1
C3 S6 A 450X620X210	0899110	1
C3 S6 A 550X740X210	0899113	1
C3 S6 A 508X762X210	0899116	1
C3 S6 A 640X860X210	0899119	1
C3 S6 A 610X914X210	0899122	1
C3 S6 A 740X980X210	0899125	1
C3 S4 A 260X260X210	0899636	1
C3 S4 A 260X380X210	0899642	1
C3 S4 A 300X300X210	0899639	1
C3 S4 A 350X500X210	0899654	1
C3 S4 A 382X458X210	0899648	1
C3 S4 A 450X620X210	0899660	1
C3 S4 A 480X480X210	0899651	1
C3 S4 A 508X762X210	0899666	1
C3 S4 A 550X740X210	0899663	1
C3 S4 A 600X400X210	0899645	1
C3 S4 A 600X600X210	0899657	1
C3 S4 A 610X914X210	0899672	1
C3 S4 A 640X860X210	0899669	1
C3 S4 A 740X980X210	0899675	1

Accessories

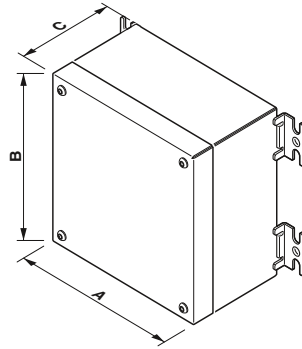
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

Installation and mounting material – CABINET add-on

Ex stainless steel empty enclosures

Empty enclosure, depth of 240 mm, 260 mm, and 300 mm

- Defined stops and the special design of the seal support ensure optimum seal compression. They thereby satisfy the high requirements in terms of sealing for the housing
- As of 160 mm depth (C), four housing sides can be assembled with flange plates
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing has a large mounting opening for convenient assembly of the terminal boxes. The flat seal edge protects against injury during installation and when carrying out maintenance and servicing



Depth of 240 mm, cabinet with door hinge, without flange plates, with mounting plate

Ex: IEC Baseefa14ATEX0393U

Technical data

Silicon
Door hinge with quarter turn locking, Mounting plate, Double-bit key, Fixing angle with mounting screws, M12 grounding bolts, affixed externally, Installation notes

Sealing material
Scope of supply

Degree of protection IP66
Impact strength 7 [J]
Surface characteristics Brushed, 240 grain
Temperature resistance -55 ... 135 [°C]
Type of locking Door with replaceable hinge, Quarter turn locking with two-way key bit
Housing fixing External fixing clips
Material thickness 2 [mm]

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see “Equipment marking” section

Marking

Baseefa 14 ATEX 0393U

IECEx BAS 14.0179U

II 2 G Ex e IIC Gb

II 2 D Ex tb IIIC Db

-55°C ≤ Ta ≤ +135°C Type IP66

Note: for customer-specific Ex terminal boxes, use the request form on the website, and specify web code:

#0851

Notes:

Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at www.phoenixcontact.net/products.

Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at www.phoenixcontact.net/products.

In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.

Description	Dimension A x B x C [mm]
Terminal box , stainless steel AISI 316L / 1.4404, with door and twist lock, without flange, including mounting plate	600 x 650 x 240
	400 x 650 x 260
	600 x 600 x 300
	508 x 762 x 300
	600 x 800 x 300
	800 x 800 x 300
	740 x 980 x 300
	1000 x 1000 x 300
Terminal box , stainless steel AISI 316L / 1.4404, with door and twist lock, incl. flange and mounting plate	600 x 600 x 300
	508 x 762 x 300
	600 x 800 x 300
	800 x 800 x 300
	740 x 980 x 300
	1000 x 1000 x 300
Terminal box , stainless steel AISI 304 / 1.4301, with door and twist lock, without flange, incl. mounting plate	600 x 650 x 240
	400 x 650 x 260
	508 x 762 x 300
	600 x 600 x 300
	600 x 800 x 300
	740 x 980 x 300
	800 x 800 x 300
	1000 x 1000 x 300
Terminal box , stainless steel AISI 304 / 1.4301, with door and twist lock, incl. flange and mounting plate	508 x 762 x 300
	600 x 600 x 300
	600 x 800 x 300
	740 x 980 x 300
	800 x 800 x 300
	1000 x 1000 x 300

Ordering data

Type	Order No.	Pcs./Pkt.
C S6 A 600X650X240	0899126	1
C S4 A 600X650X240	0899676	1

Accessories

Stainless steel label , unmarked, 70 x 50 x 1 mm	silver

EMP-V4A CS DOOR	0839001	10



Depth of 260 mm, cabinet with door hinge, without flange plates, with mounting plate



Depth of 300 mm, cabinet with door hinge, without flange plates, with mounting plate



Depth of 300 mm, cabinet with door hinge, with flange plates below, with mounting plate

Ex: EAC Ex IEC Ex
Baseefa14ATEX0393U

Technical data

Silicon
Door hinge with quarter turn locking, Mounting plate, Double-bit key, Fixing angle with mounting screws, M12 grounding bolts, affixed externally, Installation notes

IP66
7
Brushed, 240 grain
-55 ... 135
Door with replaceable hinge, Quarter turn locking with two-way key bit
External fixing clips
2

Ordering data

Ex: EAC Ex IEC Ex
Baseefa14ATEX0393U

Technical data

Silicon
Door hinge with quarter turn locking, Mounting plate, Double-bit key, Fixing angle with mounting screws, M12 grounding bolts, affixed externally, Installation notes

IP66
7
Brushed, 240 grain
-55 ... 135
Door with replaceable hinge, Quarter turn locking with two-way key bit
External fixing clips
2

Ordering data

Ex: EAC Ex IEC Ex
Baseefa14ATEX0393U

Technical data

Silicon
Door hinge with quarter turn locking, Mounting plate, Double-bit key, Fixing angle with mounting screws, M12 grounding bolts, affixed externally, Installation notes, Flange plates

IP66
7
Brushed, 240 grain
-55 ... 135
Door with replaceable hinge, Quarter turn locking with two-way key bit
External fixing clips
2

Ordering data

Type	Order No.	Pcs./Pkt.
C S6 A 400X650X260	0899127	1
C S4 A 400X650X260	0899677	1
Accessories		
EMP-V4A CS DOOR	0839001	10

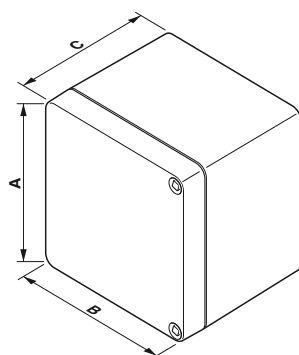
Type	Order No.	Pcs./Pkt.
C S6 A 600X600X300	0899128	1
C S6 A 508X762X300	0899130	1
C S6 A 600X800X300	0899132	1
C S6 A 800X800X300	0899134	1
C S6 A 740X980X300	0899136	1
C S6 A 1000X1000X300	0899138	1
C S4 A 508X762X300	0899680	1
C S4 A 600X600X300	0899678	1
C S4 A 600X800X300	0899682	1
C S4 A 740X980X300	0899686	1
C S4 A 800X800X300	0899684	1
C S4 A 1000X1000X300	0899688	1
Accessories		
EMP-V4A CS DOOR	0839001	10

Type	Order No.	Pcs./Pkt.
C1 S6 A 600X600X300	0899129	1
C1 S6 A 508X762X300	0899131	1
C1 S6 A 600X800X300	0899133	1
C1 S6 A 800X800X300	0899135	1
C1 S6 A 740X980X300	0899137	1
C1 S6 A 1000X1000X300	0899139	1
C1 S4 A 508X762X300	0899681	1
C1 S4 A 600X600X300	0899679	1
C1 S4 A 600X800X300	0899683	1
C1 S4 A 740X980X300	0899687	1
C1 S4 A 800X800X300	0899685	1
C1 S4 A 1000X1000X300	0899689	1
Accessories		
EMP-V4A CS DOOR	0839001	10

Installation and mounting material – CABINET add-on

Ex polyester empty enclosures

Empty enclosure with door



Junction box

- Easy door mounting, with spring-mounted hinge pins, means the door can be removed without tools
- Mounting brackets with turning protection can be flexibly adapted to the installation situation
- Comprehensive, optional accessories for customer-specific terminal boxes: grounding bolts, various locking systems in the shape of triangle bit, square bit, double bit, and T-handle can be supplied

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see “Equipment marking” section

Note: for customer-specific Ex terminal boxes, use the request form on the website, and specify web code:

i #0851

Material

Sealing material	
Scope of supply	
Degree of protection	
Impact strength	[J]
Temperature resistance	[°C]
Type of locking	
Housing fixing	
Material thickness	[mm]

Description	Dimension A x B x C [mm]
Terminal box	200 x 200 x 171
	300 x 200 x 171
	305 x 405 x 202
	405 x 605 x 252

Metal control cabinet key, for all common types of closure: 3 - 5 mm two-way key bit, 5, 6, 7 - 8, 9 - 10 mm square, 7, 8 - 9, 10 - 11 mm triangle, 6 mm special

Control cabinet key, for all popular control cabinets, closures: 5, 6, 7-8 mm, square, 7-8 mm triangle, 3-5 mm two-way key bit

Technical data

Fiberglass-reinforced polyester with added graphite

Silicon
Door hinge with 8 mm square lock
IP66
7 in accordance with EN 60079-0
-55 ... 127
Door, Square lock
External fixing clips

Ordering data

Type	Order No.	Pcs./Pkt.
C PX A 200X200X168	0899331	1
C PX A 200X300X168	0899332	1
C PX A 405X305X202	0899333	1
C PX A 605X405X252	0899334	1

Accessories

SF-CCK 9	1212525	1
USS 4	1203149	1



Mounting plate



Fixing bracket

Technical data

Steel, galvanized

-
-
-
-
-
-
-

Technical data

Stainless steel

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-
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-
-
-
-

Ordering data

Type	Order No.	Pcs./Pkt.
AE MP SH CP 200X200	0899447	1
AE MP SH CP 200X300	0899448	1
AE MP SH CP 300X400	0899445	1
AE MP SH CP 400X600	0899446	1

Accessories

Ordering data

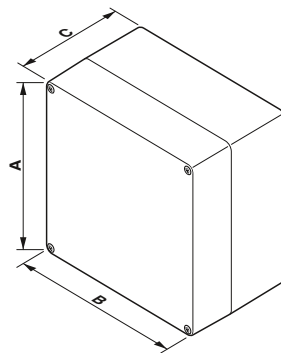
Type	Order No.	Pcs./Pkt.
AE EMB CP 2	0899522	4
AE EMB CP 2	0899522	4
AE EMB CP 1	0899521	1
AE EMB CP 1	0899521	1

Accessories

Installation and mounting material – CABINET add-on

Ex polyester empty enclosures

Empty enclosure with cover



Junction box

- Mounting brackets with turning protection can be flexibly adapted to the installation situation
- Direct wall mounting option, thanks to fixing channels outside the sealing area, protected by the cover
- The mounting screws made from stainless steel are captively integrated into the cover
- Comprehensive, ideal range of accessories for customer-specific terminal boxes: lateral joints, metal bracket (offshore plate) for shielding and grounding, grounding bolts, protective conductor busbars, precise DIN rails

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see “Equipment marking” section

Note: for customer-specific Ex terminal boxes, use the request form on the website, and specify web code:

i #0851

Material

Sealing material	
Degree of protection	
Impact strength	[J]
Temperature resistance	[°C]
Type of locking	
Housing fixing	
Material thickness	[mm]

Technical data

Fiberglass-reinforced polyester with added graphite

Silicon
IP66
7 in accordance with EN 60079-0
-55 ... 127
Screw-on cover, Plus/minus screw
External fixing clips available as an option

Ordering data

Description	Dimension A x B x C [mm]
Terminal box	75 x 80 x 56
	75 x 80 x 75
	75 x 110 x 56
	75 x 110 x 75
	75 x 160 x 56
	75 x 160 x 75
	75 x 190 x 56
	75 x 190 x 75
	75 x 230 x 56
	75 x 230 x 75
	120 x 122 x 91
	120 x 220 x 91
	160 x 160 x 91
	160 x 260 x 91
	160 x 360 x 91
	160 x 560 x 91
	250 x 255 x 121
	250 x 255 x 161
	250 x 400 x 121
	250 x 400 x 161
	250 x 600 x 121
	360 x 360 x 91
	405 x 400 x 121
	405 x 400 x 201

Type	Order No.	Pcs./Pkt.
E PX A 75X80X56	0899300	1
E PX A 75X80X75	0899301	1
E PX A 75X110X56	0899302	1
E PX A 75X110X75	0899303	1
E PX A 75X160X56	0899304	1
E PX A 75X160X75	0899305	1
E PX A 75X190X56	0899306	1
E PX A 75X190X75	0899307	1
E PX A 75X230X56	0899308	1
E PX A 75X230X75	0899309	1
E PX A 120X122X91	0899310	1
E PX A 120X220X91	0899311	1
E PX A 160X160X91	0899312	1
E PX A 160X260X91	0899313	1
E PX A 160X360X91	0899314	1
E PX A 160X560X91	0899315	1
E PX A 250X255X121	0899316	1
E PX A 250X255X161	0899317	1
E PX A 250X400X121	0899318	1
E PX A 250X400X161	0899319	1
E PX A 250X600X121	0899320	1
E PX A 360X360X91	0899321	1
E PX A 405X400X121	0899322	1
E PX A 405X400X201	0899323	1

Accessories

Torque screwdriver, adjustable from 3 - 6 Nm	black
Screw bit	silver

TSD-M 6NM	1212226	1
SF-BIT-PHSL 2-70	1212601	5





Mounting plate



Fixing bracket

Technical data

Steel, galvanized

-
-
-
-
-
-
-

Technical data

Stainless steel

-
-
-
-
-
-
-

Ordering data

Type	Order No.	Pcs./Pkt.
AE MP SH EP 75X80	0899429	1
AE MP SH EP 75X80	0899429	1
AE MP SH EP 75X110	0899430	1
AE MP SH EP 75X110	0899430	1
AE MP SH EP 75X160	0899431	1
AE MP SH EP 75X160	0899431	1
AE MP SH EP 75X190	0899432	1
AE MP SH EP 75X190	0899432	1
AE MP SH EP 120X122	0899434	1
AE MP SH EP 120X220	0899435	1
AE MP SH EP 160X160	0899436	1
AE MP SH EP 160X260	0899437	1
AE MP SH EP 160X360	0899438	1
AE MP SH EP 160X560	0899439	1
AE MP SH EP 250X255	0899440	1
AE MP SH EP 250X255	0899440	1
AE MP SH EP 250X400	0899441	1
AE MP SH EP 250X400	0899441	1
AE MP SH EP 250X600	0899442	1
AE MP SH EP 360X360	0899443	1
AE MP SH EP 405X400	0899444	1
AE MP SH EP 405X400	0899444	1

Ordering data

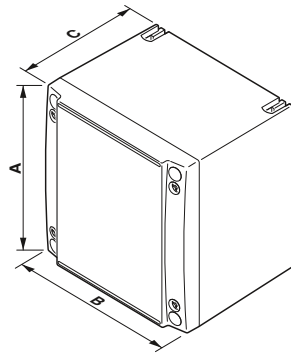
Type	Order No.	Pcs./Pkt.
AE EMB EP 1	0899519	1
AE EMB EP 1	0899519	1
AE EMB EP 1	0899519	1
AE EMB EP 1	0899519	1
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AE EMB EP 1	0899519	1
AE EMB EP 1	0899519	1
AE EMB EP 1	0899519	1
AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1

Accessories

Accessories

Ex polyester empty enclosures

Empty enclosure with two wiring levels



Junction box

- Save space, thanks to a second wiring level. The height of the top mounting frame can be individually adjusted
- Direct wall mounting option, thanks to fixing channels outside the sealing area, protected by the cover
- Retaining bands secure the cover when opening
- The mounting screws made from stainless steel are captively integrated into the cover
- Comprehensive, ideal range of accessories for customer-specific terminal boxes: assembly frames, metal bracket (offshore plate) for shielding and grounding, grounding bolts, protective conductor busbars, precise DIN rails, retaining bands

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see “Equipment marking” section

Note: for customer-specific Ex terminal boxes, use the request form on the website, and specify web code:

i #0851

Material

Sealing material	
Degree of protection	
Impact strength	[J]
Temperature resistance	[°C]
Type of locking	
Housing fixing	
Material thickness	[mm]

Description	Dimension A x B x C [mm]
Terminal box	177 x 177 x 145 360 x 177 x 145 360 x 360 x 145

Torque screwdriver, adjustable from 3 - 6 Nm	black
Screw bit	silver

Technical data

Fiberglass-reinforced polyester with added graphite

Silicon
IP66
7 in accordance with EN 60079-0
-55 ... 127
Screw-on cover, Plus/minus screw
Integrated blind hole

Ordering data

Type	Order No.	Pcs./Pkt.
D PX A 177X177X145	0899324	1
D PX A 360X177X145	0899325	1
D PX A 360X360X145	0899326	1

Accessories

TSD-M 6NM	1212226	1
SF-BIT-PHSL 2-70	1212601	5





Mounting plate

Technical data

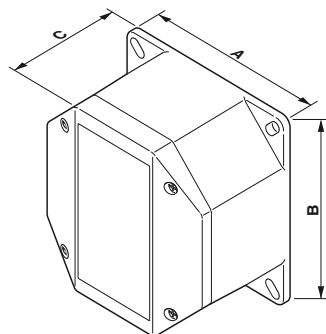
Steel, galvanized

-
-
-
-
-
-
-

Ordering data

Type	Order No.	Pcs./Pkt.
AE MP SH DP 177X177	0899453	1
AE MP SH DP 360X177	0899454	1
AE MP SH DP 360X360	0899455	1

Accessories



Junction box

- Integrated mounting bracket outside the sealing area, protected by the cover
- The mounting screws made from stainless steel are captively integrated into the cover
- Comprehensive, ideal range of accessories for customer-specific terminal boxes: metal bracket (offshore plate) for shielding and grounding, grounding bolts, precise DIN rails

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see “Equipment marking” section

Note: for customer-specific Ex terminal boxes, use the request form on the website, and specify web code:

i #0851

Material

Sealing material
Degree of protection
Impact strength
Temperature resistance
Type of locking
Housing fixing

[J]
[°C]

Description	Dimension A x B x C [mm]
Terminal box	81 x 81 x 75 121 x 121 x 75 161 x 161 x 93 200 x 200 x 125

Torque screwdriver, adjustable from 3 - 6 Nm	black
Screw bit	silver

Technical data

Fiberglass-reinforced polyester with added graphite

Silicon
IP66
7 in accordance with EN 60079-0
-55 ... 127
Screw-on cover, Plus/minus screw
Integrated external fixing clip

Ordering data

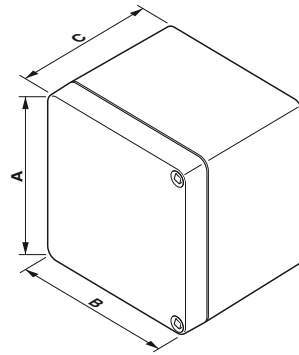
Type	Order No.	Pcs./Pkt.
O PX A 81X81X75	0899327	1
O PX A 121X121X75	0899328	1
O PX A 161X161X93	0899329	1
O PX A 200X200X125	0899330	1

Accessories

TSD-M 6NM	1212226	1
SF-BIT-PHSL 2-70	1212601	5

Polyester empty enclosures

Empty enclosure with cover



Junction box

- Direct wall mounting option, thanks to fixing channels outside the sealing area, protected by the cover
- Mounting brackets with turning protection can be flexibly adapted to the installation situation
- The mounting screws made from stainless steel are captively integrated into the cover
- Comprehensive, optional range of accessories for customer-specific terminal boxes: lateral joints, grounding bolts, protective conductor busbars, precise DIN rails

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see “Equipment marking” section

Note: for customer-specific Ex terminal boxes, use the request form on the website, and specify web code:

i #0851

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Temperature resistance	[°C]
Type of locking	
Housing fixing	
Material thickness	[mm]

Technical data

Polyester fiberglass reinforced
Chloroprene
IP66
7 in accordance with EN 60079-0
-40 ... 100
Screw-on cover, Plus/minus screw
Integrated blind hole

Ordering data

Description	Dimension A x B x C [mm]
Terminal box	55 x 55 x 37
	55 x 55 x 59
	75 x 80 x 56
	75 x 80 x 75
	75 x 110 x 56
	75 x 110 x 75
	75 x 160 x 56
	75 x 160 x 75
	75 x 190 x 56
	75 x 190 x 75
	75 x 230 x 59
	75 x 230 x 75
	100 x 320 x 81
	120 x 122 x 91
	120 x 220 x 91
	160 x 160 x 91
	160 x 260 x 91
	160 x 360 x 91
	160 x 560 x 91
	250 x 255 x 121
	250 x 255 x 161
	250 x 400 x 121
	250 x 400 x 161
	250 x 600 x 121
	360 x 360 x 91
	405 x 400 x 121
	405 x 400 x 201

Type	Order No.	Pcs./Pkt.
E PE A 55X55X37	0899335	1
E PE A 55X55X59	0899336	1
E PE A 75X80X56	0899337	1
E PE A 75X80X75	0899338	1
E PE A 75X110X56	0899339	1
E PE A 75X110X75	0899340	1
E PE A 75X160X56	0899341	1
E PE A 75X160X75	0899342	1
E PE A 75X190X56	0899343	1
E PE A 75X190X75	0899344	1
E PE A 75X230X56	0899345	1
E PE A 75X230X75	0899346	1
E PE A 100X320X81	0899347	1
E PE A 120X122X91	0899348	1
E PE A 120X220X91	0899349	1
E PE A 160X160X91	0899350	1
E PE A 160X260X91	0899351	1
E PE A 160X360X91	0899352	1
E PE A 160X560X91	0899353	1
E PE A 250X255X121	0899354	1
E PE A 250X255X161	0899355	1
E PE A 250X400X121	0899356	1
E PE A 250X400X161	0899357	1
E PE A 250X600X121	0899358	1
E PE A 360X360X91	0899359	1
E PE A 405X400X121	0899360	1
E PE A 405X400X201	0899361	1

Accessories

Torque screwdriver , adjustable from 3 - 6 Nm	black
Screw bit	silver

TSD-M 6NM	1212226	1
SF-BIT-PHSL 2-70	1212601	5





Mounting plate



Fixing bracket

Technical data

Steel, galvanized

-
-
-
-
-
-
-

Technical data

Stainless steel

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-
-
-
-
-
-

Ordering data

Type	Order No.	Pcs./Pkt.
AE MP SH EP 75X80	0899429	1
AE MP SH EP 75X80	0899429	1
AE MP SH EP 75X110	0899430	1
AE MP SH EP 75X110	0899430	1
AE MP SH EP 75X160	0899431	1
AE MP SH EP 75X160	0899431	1
AE MP SH EP 75X190	0899432	1
AE MP SH EP 75X190	0899432	1
AE MP SH EP 100X320	0899433	1
AE MP SH EP 120X122	0899434	1
AE MP SH EP 120X220	0899435	1
AE MP SH EP 160X160	0899436	1
AE MP SH EP 160X260	0899437	1
AE MP SH EP 160X360	0899438	1
AE MP SH EP 160X560	0899439	1
AE MP SH EP 250X255	0899440	1
AE MP SH EP 250X255	0899440	1
AE MP SH EP 250X400	0899441	1
AE MP SH EP 250X400	0899441	1
AE MP SH EP 250X600	0899442	1
AE MP SH EP 360X360	0899443	1
AE MP SH EP 405X400	0899444	1
AE MP SH EP 405X400	0899444	1

Accessories

Ordering data

Type	Order No.	Pcs./Pkt.
AE EMB CP 1	0899521	1
AE EMB CP 1	0899521	1
AE EMB CP 1	0899521	1
AE EMB CP 1	0899521	1
AE EMB CP 1	0899521	1
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AE EMB CP 1	0899521	1
AE EMB CP 1	0899521	1
AE EMB CP 1	0899521	1
AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1
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AE EMB EP 2	0899520	1
AE EMB EP 2	0899520	1
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AE EMB EP 2	0899520	1

Accessories

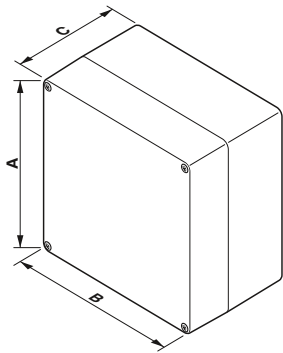
ABS terminal boxes

Assembled terminal boxes

- Terminal box with cover and pre-assembled terminal strip with Push-in connection technology (2.5 mm² cross section)
- Available pre-assembled with 6, 12 or 20 terminal blocks
- Available with 2, 3 or 4 M20 plastic cable glands depending on the version
- Fast wiring without the need for additional components

Connection data for the terminal blocks

Nominal current I_N : 24 A (at 2.5 mm²)
Nominal voltage U_N : 800 V
Maximum load current: 30 A (with a 4 mm² conductor cross section)
Min. conductor cross section, rigid: 0.14 mm²
Max. conductor cross section, rigid: 4 mm²



Terminal box with 6 2.5 mm² terminal blocks with Push-in connection technology

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Temperature resistance	[°C]
Type of locking	
Housing fixing	

Technical data	
ABS	
Silicon	
IP67	
2 in accordance with EN 62262/EN 50102	
-25 ... 60	
Screw-on cover, Phillips-Recess	
Screw connection in housing base	

Description	Dimension A x B x C [mm]
Terminal box with 6 2.5 mm² terminal blocks and 2 x M20 cable glands (1 below/1 above)	85 x 83 x 60
Terminal box with 12 2.5 mm² terminal blocks and 3 x M20 cable glands (1 below/2 above)	130 x 80 x 60
Terminal box with 20 2.5 mm² terminal blocks and 4 x M20 cable glands (1 below/3 above)	180 x 130 x 100

Ordering data		
Type	Order No.	Pcs./Pkt.
E AB A 85X83X60 6MPT	3001998	1



Terminal box with 12 2.5 mm² terminal blocks with Push-in connection technology



Terminal box with 20 2.5 mm² terminal blocks with Push-in connection technology

Technical data

ABS
Silicon
IP67
2 in accordance with EN 62262/EN 50102
-25 ... 60
Screw-on cover, Phillips-Recess
Screw connection in housing base

Ordering data

Type	Order No.	Pcs./Pkt.
E AB A 130X80X60 12MPT	3001999	1

Technical data

ABS
Silicon
IP67
2 in accordance with EN 62262/EN 50102
-25 ... 60
Screw-on cover, Phillips-Recess
Screw connection in housing base

Ordering data

Type	Order No.	Pcs./Pkt.
E AB A 180X130X100 20PT	3002001	1

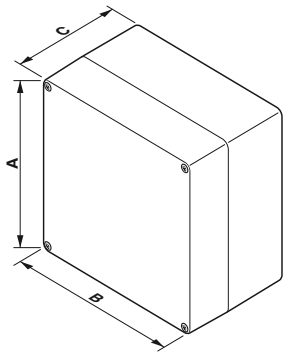
ABS terminal boxes

Assembled terminal boxes

- Terminal box with cover, pre-assembled terminal strip, and screw connection technology (2.5 mm² cross section)
- Available pre-assembled with 6, 12 or 20 terminal blocks
 - Available with 2, 3 or 4 M20 plastic cable glands depending on the version
 - Fast wiring without the need for additional components

Connection data for the terminal blocks

Nominal current I_N : 24 A
Nominal voltage U_N : 800 V
Maximum load current: 24 A
Min. conductor cross section, rigid: 0.5 mm²
Max. conductor cross section, rigid: 4 mm²



Terminal box with 6 2.5 mm² terminal blocks and screw connection technology

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Temperature resistance	[°C]
Type of locking	
Housing fixing	

Technical data	
ABS	
Sealing material	Silicon
Degree of protection	IP67
Impact strength	2 according to EN 62262/EN 50102
Temperature resistance	-25 ... 60
Type of locking	Screw-on cover, Phillips-Recess
Housing fixing	Screw connection in housing base

Description	Dimension A x B x C [mm]
Terminal box with 6 2.5 mm² terminal blocks and 2 x M20 cable glands (1 below/1 above)	85 x 83 x 60
Terminal box with 12 2.5 mm² terminal blocks and 3 x M20 cable glands (1 below/2 above)	130 x 80 x 60
Terminal box with 20 2.5 mm² terminal blocks and 4 x M20 cable glands (1 below/3 above)	180 x 130 x 100

Ordering data		
Type	Order No.	Pcs./Pkt.
E AB A 85X83X60 6TB	3002002	1



Terminal box with 12 2.5 mm² terminal blocks and screw connection technology



Terminal box with 20 2.5 mm² terminal blocks and screw connection technology

Technical data

ABS
Silicon
IP67
2 according to EN 62262/EN 50102
-25 ... 60
Screw-on cover, Phillips-Recess
Screw connection in housing base

Ordering data

Type	Order No.	Pcs./Pkt.
E AB A 130X80X60 12TB	3002003	1

Technical data

ABS
Silicon
IP67
2 according to EN 62262/EN 50102
-25 ... 60
Screw-on cover, Phillips-Recess
Screw connection in housing base

Ordering data

Type	Order No.	Pcs./Pkt.
E AB A 180X130X100 20TB	3002004	1

Installation and mounting material – CABINET add-on

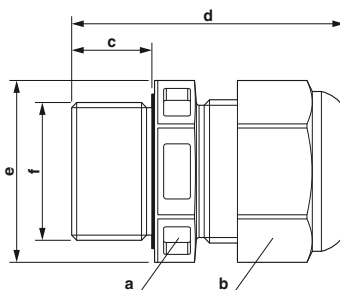
Ex cable glands

Plastic cable glands, metric, Ex protection

- Halogen-free
- Vibration-proof plastic cable gland with protection against over-tightening of the cap nut
- Glow-wire test: 750°C
- Degree of protection: IP66/IP68, 5 bar (30 minutes)

Marking:

- II 2 G Ex e IIC Gb
- II 2 D Ex IIIC Db IP68



Plastic cable gland

Notes:

For counter nuts, see page 656.

Ex: EAC Ex IEC Ex UL
PTB 13 ATEX 1015 X / IECEx PTB 13.0034X

Technical data

PA
EPDM (Cable seal, halogen-free)
-
-40°C ... 75°C (static (see prototype test report +15°C ... +65°C at impact energy of 4J))

General data

Cable gland material
Seal material
Cable seal material
Ambient temperature (operation)

Thread type	Color	Clamping area [mm]
M12 x 1.5	black	3.00 - 6.00
M16 x 1.5	black	4.50 - 9.00
M20 x 1.5	black	7.00 - 13.00
M25 x 1.5	black	10.00 - 17.00
M32 x 1.5	black	13.00 - 21.00
M40 x 1.5	black	17.00 - 28.00

Dimensions [mm]					Thread
a	b	c	d	e	f
16.00	16.00	15.00	34.00	18.00	M12
20.00	20.00	15.00	37.00	23.00	M16
24.00	24.00	15.00	41.00	28.00	M20
29.00	29.00	15.00	43.00	33.00	M25
36.00	36.00	15.00	51.00	41.00	M32
46.00	46.00	18.00	58.00	51.00	M40

Ordering data

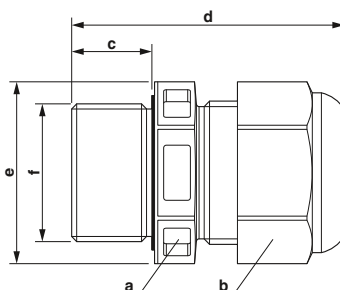
Type	Order No.	Pcs./Pkt.
G-ESIS-M12-S68L-PEPDS-BK	1415106	10
G-ESIS-M16-S68L-PEPDS-BK	1415107	10
G-ESIS-M20-S68L-PEPDS-BK	1415108	10
G-ESIS-M25-M68L-PEPDS-BK	1415109	10
G-ESIS-M32-M68L-PEPDS-BK	1415110	5
G-ESIS-M40-M68L-PEPDS-BK	1415111	5

Plastic cable glands, metric, Ex protection

- Halogen-free
- Vibration-proof plastic cable gland with protection against over-tightening of the cap nut
- Glow-wire test: 750°C
- Degree of protection: IP66/IP68, 5 bar (30 minutes)

Marking:

- II 2 G Ex e IIC Gb
- II 2 D Ex IIIC Db IP68



Plastic cable gland

Notes:

For counter nuts, see page 656.

Ex: EAC Ex IEC Ex UL
PTB 13 ATEX 1015 X / IECEx PTB 13.0034X

Technical data

PA
EPDM (Cable seal, halogen-free)
-
-40°C ... 75°C (static (see prototype test report +15°C ... +65°C at impact energy of 4J))

General data

Cable gland material
Seal material
Cable seal material
Ambient temperature (operation)

Thread type	Color	Clamping area [mm]
M12 x 1.5	black/blue	3.00 - 6.00
M16 x 1.5	black/blue	4.50 - 9.00
M20 x 1.5	black/blue	7.00 - 13.00
M25 x 1.5	black/blue	10.00 - 17.00
M32 x 1.5	black/blue	13.00 - 21.00
M40 x 1.5	black/blue	17.00 - 28.00
M50 x 1.5	black/blue	23.00 - 35.00
M63 x 1.5	black/blue	34.00 - 48.00

Dimensions [mm]					Thread
a	b	c	d	e	f
16.00	16.00	15.00	35.00	18.00	M12
20.00	20.00	15.00	37.00	23.00	M16
24.00	24.00	15.00	41.00	28.00	M20
29.00	29.00	15.00	43.00	33.00	M25
36.00	36.00	15.00	45.00	41.00	M32
46.00	46.00	18.00	58.00	51.00	M40
55.00	55.00	18.00	63.00	61.00	M50
68.00	68.00	18.00	67.00	75.00	M63

Ordering data

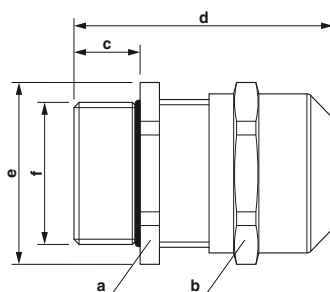
Type	Order No.	Pcs./Pkt.
G-ESIS-M12-S68L-PEPDS-BL	1415114	10
G-ESIS-M16-S68L-PEPDS-BL	1415116	10
G-ESIS-M20-S68L-PEPDS-BL	1415117	10
G-ESIS-M25-M68L-PEPDS-BL	1415118	10
G-ESIS-M32-M68L-PEPDS-BL	1415119	5
G-ESIS-M40-M68L-PEPDS-BL	1415120	5
G-ESIS-M50-L68L-PEPDS-BL	1415121	1
G-ESIS-M63-L68L-PEPDS-BL	1415122	1

Brass cable glands, metric, Ex protection

- Halogen-free
- Polyamide compression ring
- Degree of protection: IP66/IP68, 5 bar (30 minutes)

Marking:

- II 2 G Ex e IIC Gb
- II 2 D Ex IIIC Db IP68



Brass cable gland

Notes:

For counter nuts, see page 656.



Ex: EAC Ex IEC Ex PTB 04 ATEX 1112 X / IECEx PTB 13.0027X

Technical data

Nickel-plated brass
EPDM (O-ring)
EPDM
PA
-40°C ... 75°C (static)

Ordering data

Type	Order No.	Pcs./Pkt.
G-ESIS-M12-S68N-NEPDS-S	1415123	10
G-ESIS-M16-S68N-NEPDS-S	1415124	10
G-ESIS-M20-S68N-NEPDS-S	1415125	10
G-ESIS-M25-M68N-NEPDS-S	1415126	10
G-ESIS-M32-M68L-NEPDS-S	1415127	5
G-ESIS-M40-M68L-NEPDS-S	1415129	5
G-ESIS-M50-L68L-NEPDS-S	1415146	1
G-ESIS-M63-L68L-NEPDS-S	1415147	1

General data

Cable gland material
Seal material
Cable seal material
Material, insert
Ambient temperature (operation)

Thread type	Color	Clamping area [mm]
M12 x 1.5	silver	4.00 - 7.00
M16 x 1.5	silver	5.00 - 10.00
M20 x 1.5	silver	6.00 - 13.00
M25 x 1.5	silver	10.00 - 17.00
M32 x 1.5	silver	13.00 - 21.00
M40 x 1.5	silver	16.00 - 28.00
M50 x 1.5	silver	21.00 - 35.00
M63 x 1.5	silver	34.00 - 48.00

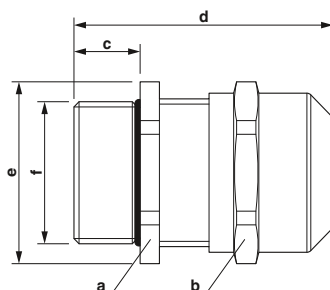
Dimensions [mm]						Thread
a	b	c	d	e	f	
-	16.00	12.00	30.00	18.00		M12
-	20.00	12.00	33.00	22.00		M16
-	24.00	12.00	43.00	27.00		M20
-	29.00	12.00	38.00	32.00		M25
-	36.00	15.00	43.00	40.00		M32
-	46.00	15.00	51.00	51.00		M40
-	55.00	15.00	57.00	61.00		M50
-	68.00	15.00	61.00	75.00		M63

Brass EMC cable glands, metric, Ex protection

- Halogen-free
- Polyamide compression ring
- Permanent braided shield contact by means of grounding cones in the EMC screw connection
- Degree of protection: IP66/IP68, 5 bar (30 minutes)

Marking:

- II 2 G Ex e IIC Gb
- II 2 D Ex IIIC Db IP68



Brass EMC cable gland

Notes:

For ribbed counter nut, see page 657.



Ex: EAC Ex IEC Ex PTB 04 ATEX 1112 X / IECEx PTB 13.0027X

Technical data

Nickel-plated brass
EPDM (O-ring)
EPDM
PA
-40°C ... 75°C (static)

Ordering data

Type	Order No.	Pcs./Pkt.
G-ESIS-M12-S68N-NEPDS-S	1415148	10
G-ESIS-M16-S68N-NEPDS-S	1415149	10
G-ESIS-M20-S68N-NEPDS-S	1415163	10
G-ESIS-M25-M68N-NEPDS-S	1415165	10
G-ESIS-M32-M68L-NEPDS-S	1415166	5
G-ESIS-M40-M68L-NEPDS-S	1415168	5
G-ESIS-M50-L68L-NEPDS-S	1415169	1
G-ESIS-M63-L68L-NEPDS-S	1415170	1

General data

Cable gland material
Seal material
Cable seal material
Material, insert
Ambient temperature (operation)

Thread type	Color	Clamping area [mm]
M12 x 1.5	silver	4.00 - 7.00
M16 x 1.5	silver	5.00 - 10.00
M20 x 1.5	silver	6.00 - 13.00
M25 x 1.5	silver	10.00 - 17.00
M32 x 1.5	silver	13.00 - 21.00
M40 x 1.5	silver	16.00 - 28.00
M50 x 1.5	silver	21.00 - 35.00
M63 x 1.5	silver	34.00 - 48.00

Dimensions [mm]						Thread
a	b	c	d	e	f	
16.00	16.00	12.00	30.00	18.00		M12
20.00	20.00	12.00	33.00	22.00		M16
24.00	24.00	12.00	43.00	27.00		M20
29.00	29.00	12.00	38.00	32.00		M25
36.00	36.00	15.00	43.00	40.00		M32
46.00	46.00	15.00	51.00	51.00		M40
55.00	55.00	15.00	57.00	61.00		M50
68.00	68.00	15.00	61.00	75.00		M63

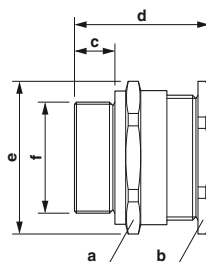
Installation and mounting material – CABINET add-on

Ex cable glands

Brass cable glands, metric, Ex protection

The cable glands for unarmored and braided cables provide flameproof (type “d”), increased safety (type “e”), and restricted breathing (type “nR”) protection.

– Degree of protection: IP66/IP67/IP68



Brass cable gland

Notes:

For counter nuts, see page 656.

General data

Cable gland material
Seal material
Cable seal material
Ambient temperature (operation)

Ex: EAC Ex
Sira 13ATEX1068X / IECEx SIR 13.0023X

Technical data

Nickel-plated brass
-
EPDM
-60°C ... 130°C (static)

Ordering data

Thread type	Color	Clamping area [mm]
M20 x 1.5	silver	6.50 - 14.00
M25 x 1.5	silver	11.10 - 20.00
M32 x 1.5	silver	17.00 - 26.30
M40 x 1.5	silver	23.50 - 32.20
M50 x 1.5	silver	35.60 - 44.10
M63 x 1.5	silver	47.20 - 56.00

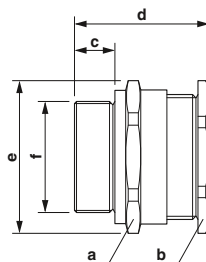
Dimensions [mm]						Thread
a	b	c	d	e	f	
27.00	27.00	15.00	39.00	29.70		M20
36.00	36.00	15.00	41.00	39.60		M25
41.00	41.00	15.00	42.00	45.10		M32
50.00	50.00	15.00	43.00	55.00		M40
60.00	60.00	15.00	45.00	66.00		M50
75.00	75.00	15.00	45.00	82.50		M63

Type	Order No.	Pcs./Pkt.
G-ESS-M20-S66L-NTES-S	1411075	20
G-ESS-M25-M66L-NTES-S	1411077	20
G-ESS-M32-M66L-NTES-S	1411079	10
G-ESS-M40-L66L-NTES-S	1411081	2
G-ESS-M50-L66L-NTES-S	1411084	2
G-ESS-M63-L66L-NTES-S	1411086	2

Stainless steel cable glands, metric, Ex protection

The cable glands for unarmored and braided cables provide flameproof (type “d”), increased safety (type “e”), and restricted breathing (type “nR”) protection.

– Degree of protection: IP66/IP67/IP68



Stainless steel cable gland

Notes:

For counter nuts, see page 657.

General data

Cable gland material
Seal material
Cable seal material
Ambient temperature (operation)

Ex: EAC Ex
Sira 13ATEX1068X / IECEx SIR 13.0023X

Technical data

Stainless steel 316L
-
EPDM
-60°C ... 130°C (static)

Ordering data

Thread type	Color	Clamping area [mm]
M20 x 1.5	silver	6.50 - 14.00
M25 x 1.5	silver	11.10 - 20.00
M32 x 1.5	silver	17.00 - 26.30
M40 x 1.5	silver	23.50 - 32.20
M50 x 1.5	silver	35.60 - 44.10
M63 x 1.5	silver	47.20 - 56.00

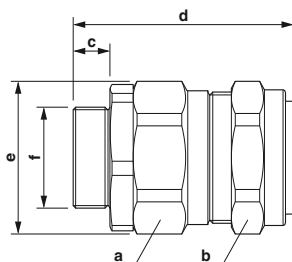
Dimensions [mm]						Thread
a	b	c	d	e	f	
27.00	27.00	15.00	39.00	29.70		M20
36.00	36.00	15.00	41.00	39.60		M25
41.00	41.00	15.00	42.00	45.10		M32
50.00	50.00	15.00	43.00	55.00		M40
60.00	60.00	15.00	45.00	66.00		M50
75.00	75.00	15.00	45.00	82.50		M63

Type	Order No.	Pcs./Pkt.
G-ESS-M20-S66L-STES-S	1411076	20
G-ESS-M25-M66L-STES-S	1411078	20
G-ESS-M32-M66L-STES-S	1411080	10
G-ESS-M40-L66L-STES-S	1411082	2
G-ESS-M50-L66L-STES-S	1411085	2
G-ESS-M63-L66L-STES-S	1411087	2

Brass cable glands, metric, Ex protection

The cable glands for armored cables provide increased safety (type “e”) protection.

– Degree of protection: IP66/IP67/IP68



Brass cable gland

Notes:

For counter nuts, see page 656.

Ex: EAC Ex SIR 13.0025X
Sira 13ATEX1070X / IECEx SIR 13.0025X

Technical data

Nickel-plated brass
-
EPDM
-60°C ... 130°C (static)

Ordering data

Type	Order No.	Pcs./Pkt.
G-ESSWU-M20S-S66L-NTES-S	1411088	10
G-ESSWU-M20-M66L-NTES-S	1411090	10
G-ESSWU-M25-M66L-NTES-S	1411092	10
G-ESSWU-M32-L66L-NTES-S	1411094	5
G-ESSWU-M40-L66L-NTES-S	1411097	1
G-ESSWU-M50-L66L-NTES-S	1411100	5
G-ESSWU-M63-L66L-NTES-S	1411102	1

General data

Cable gland material
Seal material
O-ring material
Cable seal material
Ambient temperature (operation)

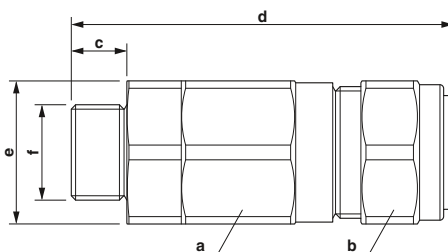
Thread type	Color	Clamping area [mm]
M20 x 1.5	silver	9.50 - 15.90
M20 x 1.5	silver	12.50 - 20.90
M25 x 1.5	silver	18.20 - 26.20
M32 x 1.5	silver	23.70 - 33.90
M40 x 1.5	silver	27.90 - 40.40
M50 x 1.5	silver	40.40 - 53.10
M63 x 1.5	silver	54.60 - 65.90

Dimensions [mm]						Thread
a	b	c	d	e	f	
24.00	24.00	15.00	73.00	26.40	M20	
30.50	30.50	15.00	75.00	33.60	M20	
37.50	37.50	15.00	82.00	41.30	M25	
46.00	46.00	15.00	84.00	50.60	M32	
55.00	55.00	15.00	93.00	60.50	M40	
70.00	70.00	15.00	95.00	77.00	M50	
80.00	80.00	15.00	107.00	88.00	M63	

Stainless steel cable glands, metric, Ex protection

The cable glands for armored cables provide flameproof (type “d”), increased safety (type “e”), and restricted breathing (type “nR”) protection.

– Degree of protection: IP66/IP67/IP68



Stainless steel cable gland

Notes:

For counter nuts, see page 657.

Ex: EAC Ex SIR 13.0028X
Sira 13ATEX1073X / IECEx SIR 13.0028X

Technical data

Stainless steel 316L
EPDM
-
EPDM
-60°C ... 130°C (static)

Ordering data

Type	Order No.	Pcs./Pkt.
G-EDSWU-M20S-S66L-STES-S	1411089	10
G-EDSWU-M20-M66L-STES-S	1411091	10
G-EDSWU-M25-M66L-STES-S	1411093	10
G-EDSWU-M32-L66L-STES-S	1411095	5
G-EDSWU-M40-L66L-STES-S	1411099	1
G-EDSWU-M50-L66L-STES-S	1411101	1
G-EDSWU-M63-L66L-STES-S	1411103	1

General data

Cable gland material
Seal material
O-ring material
Cable seal material
Ambient temperature (operation)

Thread type	Color	Clamping area [mm]
M20 x 1.5	silver	9.50 - 15.90
M20 x 1.5	silver	12.50 - 20.90
M25 x 1.5	silver	18.20 - 26.20
M32 x 1.5	silver	23.70 - 33.90
M40 x 1.5	silver	27.90 - 40.40
M50 x 1.5	silver	40.40 - 53.10
M63 x 1.5	silver	54.60 - 65.90

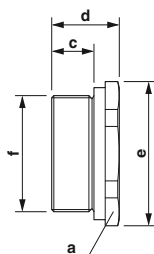
Dimensions [mm]						Thread
a	b	c	d	e	f	
24.00	24.00	15.00	73.00	26.40	M20	
30.50	30.50	15.00	75.00	33.60	M20	
37.50	37.50	15.00	82.00	41.30	M25	
46.00	46.00	15.00	84.00	50.60	M32	
55.00	55.00	15.00	101.00	60.50	M40	
70.00	70.00	15.00	95.00	77.00	M50	
80.00	80.00	15.00	107.00	88.00	M63	

Installation and mounting material – CABINET add-on

Ex cable glands

Brass screw plugs, metric, Ex protection

The screw plugs offer IP66 and IP68 protection, if they are installed with an entry thread. These seal unused cable entries in systems with flameproof enclosures (type d) and increased safety (type e).



Brass screw plug

Notes:

For counter nuts, see page 656.

Ex:

General data

Material
Ambient temperature (operation)

Technical data

Brass, nickel-plated
-60°C ... 130°C

Ordering data

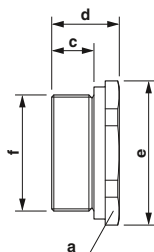
Thread type	Color	Clamping area [mm]
M20 x 1.5	silver	-
M25 x 1.5	silver	-
M32 x 1.5	silver	-
M40 x 1.5	silver	-
M50 x 1.5	silver	-
M63 x 1.5	silver	-

Dimensions [mm]					Thread
a	b	c	d	e	f
24.00	-	15.30	20.30	26.40	M20
30.00	-	15.00	24.00	33.00	M25
36.00	-	15.00	24.00	39.60	M32
46.00	-	15.00	24.00	50.60	M40
55.00	-	15.00	24.00	60.50	M50
65.00	-	15.00	24.00	77.00	M63

Type	Order No.	Pcs./Pkt.
A-EXSH-M20-68L-N-S	1411104	20
A-EXSH-M25-68L-N-S	1411107	20
A-EXSH-M32-68L-N-S	1411109	10
A-EXSH-M40-68L-N-S	1411111	5
A-EXSH-M50-68L-N-S	1411113	2
A-EXSH-M63-68L-N-S	1411115	1

Stainless steel screw plugs, metric, Ex protection

The screw plugs offer IP66 and IP68 protection, if they are installed with an entry thread. These seal unused cable entries in systems with flameproof enclosures (type d) and increased safety (type e).



Stainless steel screw plug

Notes:

For counter nuts, see page 657.

Ex:

General data

Material
Ambient temperature (operation)

Technical data

Stainless steel 316L
-60°C ... 130°C

Ordering data

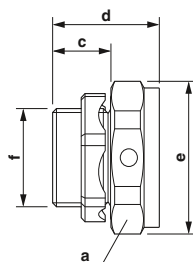
Thread type	Color	Clamping area [mm]
M20 x 1.5	silver	-
M25 x 1.5	silver	-
M32 x 1.5	silver	-
M40 x 1.5	silver	-
M50 x 1.5	silver	-
M63 x 1.5	silver	-

Dimensions [mm]					Thread
a	b	c	d	e	f
24.00	-	15.00	24.00	26.40	M20
30.00	-	15.00	24.00	33.00	M25
36.00	-	15.00	24.00	39.60	M32
46.00	-	15.00	24.00	50.60	M40
55.00	-	15.00	24.00	60.50	M50
65.00	-	15.00	24.00	77.00	M63

Type	Order No.	Pcs./Pkt.
A-EXSH-M20-68L-S-S	1411105	20
A-EXSH-M25-68L-S-S	1411108	20
A-EXSH-M32-68L-S-S	1411110	10
A-EXSH-M40-68L-S-S	1411112	5
A-EXSH-M50-68L-S-S	1411114	2
A-EXSH-M63-68L-S-S	1411116	1

Brass pressure compensation, metric, Ex protection

Breather/drain plugs for increased safety (type “e”) provide superior ventilation for devices. They are designed to act as a pressure compensation element preventing moisture build-up to IP66.



Notes:

For counter nuts, see page 656.

Brass pressure compensation

Ex: EAC Ex IEC Ex SIR 10.0149U
Sira 10ATEX1307U / IECEx SIR 10.0149U

Technical data

Brass, nickel-plated
Silicon
-60°C ... 130°C

Ordering data

Type	Order No.	Pcs./Pkt.
A-EXB-20-66L-N-S	1411117	5
A-EXB-25-66L-N-S	1411120	5

General data

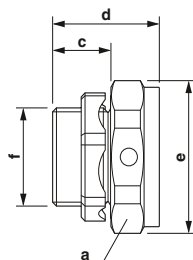
Material
O-ring material
Ambient temperature (operation)

Thread type	Color	Clamping area [mm]
M20 x 1.5	silver	-
M25 x 1.5	silver	-

Dimensions [mm]					Thread
a	b	c	d	e	f
30.00	-	15.00	32.00	33.00	M20
31.50	-	15.00	32.00	39.60	M25

Stainless steel pressure compensation, metric, Ex protection

Breather/drain plugs for increased safety (type “e”) provide superior ventilation for devices. They are designed to act as a pressure compensation element preventing moisture build-up to IP66.



Notes:

For counter nuts, see page 657.

Stainless steel pressure compensation

Ex: EAC Ex IEC Ex SIR 10.0149U
Sira 10ATEX1307U / IECEx SIR 10.0149U

Technical data

Stainless steel 1.4404
Silicon
-60°C ... 130°C

Ordering data

Type	Order No.	Pcs./Pkt.
A-EXB-20-66L-S-S	1411118	5
A-EXB-25-66L-S-S	1411121	5

General data

Material
O-ring material
Ambient temperature (operation)

Thread type	Color	Clamping area [mm]
M20 x 1.5	silver	-
M25 x 1.5	silver	-

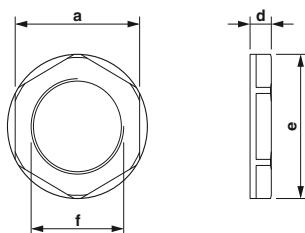
Dimensions [mm]					Thread
a	b	c	d	e	f
30.00	-	15.00	32.00	26.40	M20
31.50	-	15.00	32.00	33.00	M25

Installation and mounting material – CABINET add-on

Ex cable glands

Plastic counter nuts, metric, EN 60423

– Color: jet black (RAL 9005)



General data

Material
Ambient temperature (operation)

Technical data

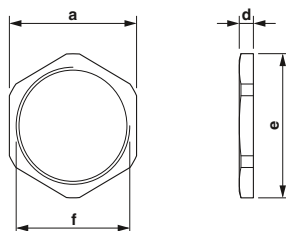
PA
-20°C ... 100°C

Ordering data

Thread type	Color	Clamping area [mm]	Dimensions [mm]					Thread
			a	b	c	d	e	f
M12 x 1.5	jet black RAL 9005	-	18.00	-	-	5.00	19.50	M12
M16 x 1.5	jet black RAL 9005	-	22.00	-	-	5.00	24.20	M16
M20 x 1.5	jet black RAL 9005	-	26.00	-	-	6.00	28.60	M20
M25 x 1.5	jet black RAL 9005	-	32.00	-	-	6.00	35.00	M25
M32 x 1.5	jet black RAL 9005	-	41.00	-	-	7.00	46.10	M32
M40 x 1.5	jet black RAL 9005	-	50.00	-	-	7.00	55.30	M40
M50 x 1.5	jet black RAL 9005	-	60.00	-	-	8.00	66.10	M50
M63 x 1.5	jet black RAL 9005	-	75.00	-	-	8.00	82.50	M63

Type	Order No.	Pcs./Pkt.
A-INL-M12-P-BK	1411213	10
A-INL-M16-P-BK	1411214	10
A-INL-M20-P-BK	1411215	5
A-INL-M25-P-BK	1411216	5
A-INL-M32-P-BK	1411217	5
A-INL-M40-P-BK	1411218	5
A-INL-M50-P-BK	1411219	5
A-INL-M63-P-BK	1411220	5

Brass counter nuts, metric, EN 60423



Brass counter nut

General data

Material
Ambient temperature (operation)

Technical data

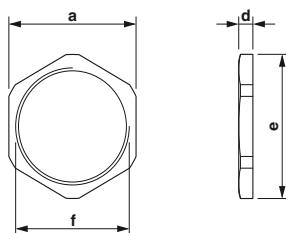
Brass, nickel-plated
-70°C ... 220°C

Ordering data

Thread type	Color	Clamping area [mm]	Dimensions [mm]					Thread
			a	b	c	d	e	f
M12 x 1.5	silver	-	15.00	-	-	2.80	16.50	M12
M16 x 1.5	silver	-	19.00	-	-	2.80	21.00	M16
M20 x 1.5	silver	-	24.00	-	-	3.00	27.00	M20
M25 x 1.5	silver	-	30.00	-	-	3.50	33.50	M25
M32 x 1.5	silver	-	36.00	-	-	4.00	40.00	M32
M40 x 1.5	silver	-	46.00	-	-	5.00	50.00	M40
M50 x 1.5	silver	-	57.00	-	-	5.00	65.00	M50
M63 x 1.5	silver	-	70.00	-	-	6.00	75.00	M63

Type	Order No.	Pcs./Pkt.
A-INL-M12-N-S	1411240	100
A-INL-M16-N-S	1411241	100
A-INL-M20-N-S	1411242	100
A-INL-M25-N-S	1411243	100
A-INL-M32-N-S	1411244	100
A-INL-M40-N-S	1411246	50
A-INL-M50-N-S	1411247	25
A-INL-M63-N-S	1411248	25

Stainless steel counter nuts, metric, EN 60423



Stainless steel counter nut

General data

Material
Ambient temperature (operation)

Technical data

Stainless steel 1.4305
-70°C ... 220°C

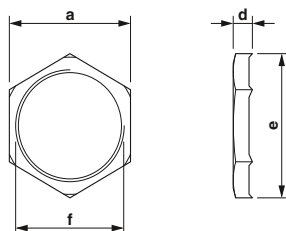
Ordering data

Thread type	Color	Clamping area [mm]	Dimensions [mm]					Thread
			a	b	c	d	e	
M20 x 1.5	silver	-	24.00	-	-	3.00	27.00	M20
M25 x 1.5	silver	-	30.00	-	-	3.50	33.50	M25
M32 x 1.5	silver	-	36.00	-	-	4.00	40.00	M32
M40 x 1.5	silver	-	46.00	-	-	5.00	50.00	M40
M50 x 1.5	silver	-	55.00	-	-	5.00	65.00	M50
M63 x 1.5	silver	-	70.00	-	-	6.00	75.00	M63

Type	Order No.	Pcs./Pkt.
A-INL-M20-S-S	1411249	10
A-INL-M25-S-S	1411250	10
A-INL-M32-S-S	1411251	5
A-INL-M40-S-S	1411252	5
A-INL-M50-S-S	1411253	2
A-INL-M63-S-S	1411254	1

Brass counter nuts, metric, EN 60423, ribbed

– Version: ribbed



Brass counter nut

General data

Material
Ambient temperature (operation)

Technical data

Brass, nickel-plated
-70°C ... 220°C

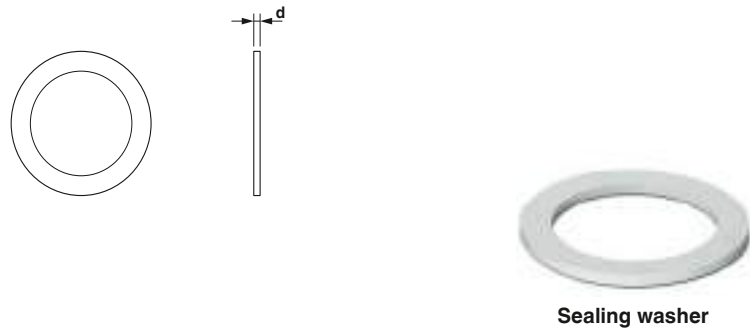
Ordering data

Thread type	Color	Clamping area [mm]	Dimensions [mm]					Thread
			a	b	c	d	e	
M12 x 1.5	silver	-	15.00	-	-	4.70	16.50	M12
M16 x 1.5	silver	-	19.00	-	-	4.70	21.00	M16
M20 x 1.5	silver	-	24.00	-	-	4.70	27.00	M20
M25 x 1.5	silver	-	30.00	-	-	5.20	33.50	M25
M32 x 1.5	silver	-	36.00	-	-	5.70	40.00	M32
M40 x 1.5	silver	-	46.00	-	-	6.50	50.00	M40
M50 x 1.5	silver	-	60.00	-	-	6.50	65.00	M50
M63 x 1.5	silver	-	70.00	-	-	7.00	75.00	M63

Type	Order No.	Pcs./Pkt.
A-INLE-M12-N-S	1411267	100
A-INLE-M16-N-S	1411268	100
A-INLE-M20-N-S	1411269	100
A-INLE-M25-N-S	1411270	50
A-INLE-M32-N-S	1411271	50
A-INLE-M40-N-S	1411272	50
A-INLE-M50-N-S	1411273	10
A-INLE-M63-N-S	1411274	10

Ex cable glands

Sealing washers,
metric



General data

Material
Ambient temperature (operation)

Technical data

Nylon
-60°C ... 130°C

Ordering data

Thread type	Color	Clamping area [mm]	Dimensions [mm]					Thread f
			a	b	c	d	e	
M20	white	-	-	-	-	-	-	M20
M25	white	-	-	-	-	-	-	M25
M32	white	-	-	-	-	-	-	M32
M40	white	-	-	-	-	-	-	M40
M50	white	-	-	-	-	-	-	M50
M63	white	-	-	-	-	-	-	M63

Type	Order No.	Pcs./Pkt.
A-SEW-20-P-W	1411283	20
A-SEW-25-P-W	1411284	20
A-SEW-32-P-W	1411285	20
A-SEW-40-P-W	1411286	20
A-SEW-50-P-W	1411287	10
A-SEW-63-P-W	1411288	10

Quality in quantity



Integrated management system

The objective of the Phoenix Contact integrated management system is to integrate all requirements pertaining to products, processes, and the organization.

Statutory and regulatory requirements, as well as those of international standards and our customers, are met and, in some cases, even exceeded in all phases of the product lifecycle.

The Phoenix Contact management system is monitored by internationally recognized independent bodies each year to ensure that quality, environmental protection, energy efficiency, and occupational safety have been integrated in conformance with the relevant requirements. Certification in accordance with international standards ISO 9001, ISO 14001, ISO 50001, and BS OHSAS 18001 is the result of our corporate philosophy of meeting the needs of our customers, staff, and environment as best as possible. This serves as the basis for innovative products with the familiar high Phoenix Contact quality standard, actively practiced environmental protection through efficient production and products that conserve resources, and responsibility in the field of occupational health and safety. It goes without saying that we integrate all further requirements of standards, international approvals or special customer requirements into our company processes.

The result of this system is a building block for the success of the Phoenix Contact Group as well as its products and services.

CE marking

CE marking was introduced as an important instrument for the free movement of goods and services within the single European market. By applying the mark to a product, the manufacturer confirms its compliance with all EU directives applicable to this product. The EU directives describe the product characteristics with regard to device safety and the avoidance of risks. They have been incorporated in national legislation. Compliance with the requirements is a **condition for placing the product on the market within the EU.**

Where applicable, our products currently fall within the scope of the following directives in particular:

- 2014/35/EU
Electrical equipment designed for use within certain voltage limits (Low Voltage Directive)
- 2014/30/EU
Electromagnetic compatibility (EMC Directive)
- 2014/32/EU
Measuring instruments
- 2006/42/EC
Safety of machinery (Machinery Directive)
- 2014/34/EU
Equipment and protective systems intended for use in potentially explosive atmospheres (ATEX Directive)
- 2014/53/EU
Radio equipment (RED)
- 2011/65/EU
Restriction of the use of certain hazardous substances (RoHS Directive)
- 2012/19/EU
Waste electrical and electronic equipment (WEEE Directive)

The standards used as the basis for the aforementioned directives have been at the heart of our development standard for some time as a way of ensuring compliance with European directives. The numbers of the directives indicate their version at the time of publication. In the event of changes to directives and/or standards, our products will undergo conformity assessment again in good time and a new declaration of conformity will be issued promptly. The current declarations for each product can also be found in our download area.

Among the aforementioned European directives, the EMC Directive plays a particularly important role. It uses a directive enshrined in national legislation as the basis for defining electromagnetic compatibility as a fundamental device property. European legislation therefore places great emphasis on the electromagnetic compatibility of devices and systems as a basic prerequisite for the error-free operation of machines and systems. As an international leader in the field of surge protection, Phoenix Contact has extensive expertise in EMC. This expertise and the experience gained over many years in the development and application of industrial interface and communication technology have resulted in an extremely high standard of quality for our products when it comes to electromagnetic compatibility. Our independent laboratory, Phoenix Testlab, was founded in order to share this expertise with other companies. Phoenix Testlab GmbH is an accredited service company, which carries out EMC testing in compliance with European standards. At Phoenix Testlab,

devices are also tested with regard to their electrical safety, mechanical influences, and their behavior in relation to environmental influences. Phoenix Testlab is also a notified body in accordance with EMC Directive 2014/30/EU and Radio Equipment Directive (RED) 2014/53/EU. As a certification body (TCB, FCB, and RCB), Phoenix Testlab is also able to approve these products for the markets in the USA, Canada, and Japan.

Standards and regulations

All relevant standards and regulations are used as the basis for the development and maintenance of our products.

International standards are subject to continuous changes as a result of harmonization and new developments. In line with this process, the current version of all standards that are relevant to our products is documented in the product area on our website at phoenixcontact.net/products.

Online product information service on the world wide web

Phoenix Contact is continuously extending its product range.

Within the scope of our product monitoring obligation, all products are subject to an improvement process.

The Internet is an ideal platform to quickly communicate new product developments and improvements to the market.

You can quickly access the relevant Phoenix Contact website for your region via phoenixcontact.com. There you will always find an up-to-date overview of products, solutions, and services from Phoenix Contact. This includes technical documents such as data sheets and user manuals, current driver and demo software, and a direct link to the relevant contact person.

Materials

Polyamide (PA)

Polyamide has excellent electrical, mechanical, chemical, and thermal properties, even at high operating temperatures. Brief peak temperatures of up to 200°C are permitted as a result of heat aging stabilization. Polyamide absorbs moisture from its surroundings (2.8% on average). However, this moisture is not crystallization water in the plastic itself, but chemically bonded H₂O groups in the molecular structure. This makes the plastic flexible and resistant to breakage, even at temperatures as low as -60°C. As per UL 94, PA has a flammability rating of V2 to V0. The polyamide used by Phoenix Contact is silicone and halogen-free and is suitable for use at temperatures between -60°C and +125°C.

Polycarbonate (PC)

Polycarbonate is characterized by its high mechanical strength and chemical resistance. Other properties of this material include rigidity, dimensional stability, and good heat distortion resistance. Polycarbonate is used to manufacture particularly smooth and stable marking materials. The polycarbonate used by Phoenix Contact absorbs little moisture, is silicone and halogen-free, and is suitable for use at temperatures between -40°C and +125°C.

Polycarbonate/acrylonitrile butadiene styrene (PC/ABS)

PC/ABS blends are amorphous thermoplastics which are characterized by high impact strength potential even at low temperatures. They are resistant to acids and lyes, for example. In addition to benefiting from high dimensional accuracy and low distortion tendency, they absorb little moisture. The products manufactured from these blends have a high-gloss finish. Temperature range: -50°C to +90°C.

Acrylonitrile butadiene styrene (ABS)

ABS is a copolymer. It has a high impact strength and is strong and hard. The ABS used by Phoenix Contact is silicone-free and is suitable for use at temperatures between -40°C and +85°C.

Polyvinyl chloride (PVC)

PVC has a long service life. It is characterized in particular by its outstanding mechanical strength and high chemical resistance. PVC is unaffected by oxygen and ozone. The material is resistant to corrosive salt solutions and most acids. The polyvinyl chloride used by Phoenix Contact is silicone-free and

is suitable for use at temperatures between -30°C and +80°C.

Polyester

Polyester is resistant to chemicals. It is ideally suited to printing, shaping, and punching. Polyester is resistant to UV radiation and absorbs little moisture. The polyester used by Phoenix Contact is silicone and halogen-free. Depending on its composition, it is suitable for use at temperatures between -40°C and +150°C.

Polyolefin

Polyolefins are semi-crystalline thermoplastics, which can be easily processed as extrusion profiles (shrink sleeves). They are characterized by good chemical resistance. Silicone-free, temperature range: -55°C to +125°C.

Polyethylene (PE)

Polyethylene is a thermoplastic material which is highly resistant to acids, lyes, and other solvents. PE absorbs hardly any moisture and has high durability and breaking elongation. Silicone and halogen-free, temperature range: -40°C to +80°C.

Halogen-free

The term halogen-free, based on international standards for base materials for PCBs (e.g., IEC 61249-2-21, IPC 4101 C), relates to the elements chlorine and bromine in flame protection agents. This also forbids the use of flame protection agents containing halogen in accordance with DIN EN ISO 1043-4.

As per the definition in the ZVEI position paper (requirements for the use of halogen-free products in the electrical and electronics industry), this means that no flame protection agents containing halogen or PVC are present in the components.

Flammability classification

UL 94 V0/1/2

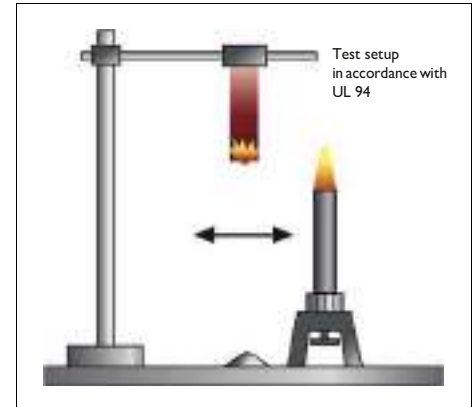
The flammability tests for plastics have been defined by Underwriters Laboratories (USA) in regulation UL 94. This applies to all areas of application, particularly in electrical engineering. A horizontal (HB - Horizontal Burn) or vertical (VB - Vertical Burn) test is carried out at the test laboratory to determine the flammability of the plastic material with a naked flame. In order of increasing flame-retardant behavior, the evaluation classes are HB, V1, V2, and V0. Test results are recorded on “yellow cards” and are published annually in the Recognized Component Directory.

The flash point, the combustion point, and the ignition point of a material are decisive with regard to its fire behavior. The tests show that the UL 94 V1/2/0 classifications are stricter than that of UL 94 HB.

The test bar is clamped vertically and flame-treated several times for 10 seconds at a time. Between the flame treatments, the time until the test bar is extinguished is measured. The afterflame times and the drip behavior are then evaluated.

This test setup is not suitable for foils and/or very thin test objects that shrink when exposed to the heat of the flame.

Phoenix Contact only uses plastics which conform to UL 94 V1/2/0.



Classification	UL 94 V0	UL 94 V1	UL 94 V2	UL 94 HB
Burning time after each flame treatment	≤ 10 s	≤ 30 s	≤ 30 s	-
Total burning time after 10 flame treatments	≤ 50 s	≤ 250 s	≤ 250 s	-
Glowing time after the 2nd flame treatment	≤ 30 s	≤ 60 s	≤ 60 s	-
Complete burn-off	No	No	No	Yes
Ignition of the absorbent cotton under the sample	No	No	No	-

Halogen-free flame protection

DIN EN ISO 1043-4

Halogens include the chemical elements astatine, fluorine, chlorine, bromine, and iodine. One property of the halogen compounds of bromine and chlorine is the reduction in the degree of flammability when used in plastics. In the event of fire, poisonous corrosive gases are formed. Secondary damage attributable in part to the water used to extinguish the fire can also be caused. For this reason, Phoenix Contact does not use any flame protection systems which contain halogens or other additives. Polyamide,

polycarbonate, polycarbonate/acrylonitrile butadiene styrene, acrylonitrile butadiene styrene, and polyolefins feature halogen-free flame protection systems.



Industrial identification – Quality features

Marking materials and their markings must withstand a wide range of extreme environmental conditions, depending on their area of application. To ensure clear and permanent marking, the properties of the base material must not alter too drastically and the quality of the printing must remain constant. In addition to environmental influences, marking materials and their markings are often subjected to mechanical influences.

It must not be possible to scratch the marking off, and abrasions caused by industrial cleaning agents must not render the marking illegible. Furthermore, the marking materials must remain securely fixed in place even when subjected to vibration. Phoenix Contact only uses tested materials that satisfy the requirements set by these standards in every respect.

Weathering resistance

DIN EN ISO 4892-2

To simulate several years of use outdoors, the marking materials are exposed to cyclical stresses through UV radiation and humidity.

In this way, artificial weathering provides an insight into the mechanical properties and the appearance of a material.



Resistance to oil and chemicals

DIN EN ISO 175

Liquid oils and chemicals can trigger physical or chemical reactions that have a negative impact on the base material. Both the mechanical properties of a plastic and the durability of the marking can be affected. Tested materials withstand these influences.



Wipe resistance

DIN EN ISO 61010-1-2 and DIN EN ISO 62208

To ensure the wipe resistance of markings in an industrial environment, the markings undergo a test with isopropanol, n-hexane, and petroleum ether. A cloth is soaked in the respective chemical and wiped over the marking material with a defined force for 30 s. After the test, the marking has to be clearly legible.



Corrosion resistance

DIN 50018

To test the resistance of the materials to corrosion damage, they are exposed to a condensation changing climate with a sulfur dioxide laden atmosphere at +40°C. This climate forms an acidic atmosphere during the test. Finally, a microscopic visual inspection of the materials is performed. All marking materials used by Phoenix Contact conform to this demanding standard and are resistant to aggressive substances.



Salt spray

IEC 60068-2-11/-52

Particularly in shipbuilding and offshore applications, the markings must withstand corrosive atmospheres containing salt. To ensure this can be achieved, the resistance of the materials is tested with salt spray in a corrosive atmosphere. A visual inspection is performed after the test.



Vibration resistance

DIN EN 50155

To simulate vibration stress that occurs in practice (e.g., in the railway industry), the marking materials are exposed to increasing and decreasing frequencies and amplitudes. They are tested in the three axes (x, y, z) for five hours each, and must not be damaged and their secure positioning must not have been impacted.



Scratch resistance

DIN EN ISO 1518

The scratch resistance of markings when exposed to intermittent or linear stress is tested using an Erichsen test pencil. A defined force is applied to an engraving needle via spring tension. The spring tension at which the Erichsen hardness test pencil leaves behind a barely visible trace is decisive.



Adhesion

DIN EN ISO 2409

To test the adhesion of printing, for the Tesa test, a transparent strip of self-adhesive tape with an adhesive strength of 10 ± 1 N is applied to the printing to be tested. The self-adhesive tape is then pulled off at an angle of 60° in relation to the pulling direction. There should be no marks from the printing on the adhesive tape after the test.



Adhesive strength

FINAT 1, 2, and 9

To determine the adhesive strength of a label on a base material, a strip of labels (25 mm x 175 mm) is applied with a defined force. The test sample is then removed after a defined wait time, at a predefined angle, at 300 mm/min. The adhesive strength is specified in N/25 mm.



IP degree of protection

DIN EN 60529 / ISO 20653

Differing ambient conditions and requirements necessitate a clear classification of markings in IP degrees of protection. These are indicated by a code consisting of two numbers following the IP abbreviation: the first number describes the scope of protection against the ingress of foreign bodies, the second the tightness of seal against humidity.



Conductors and cables

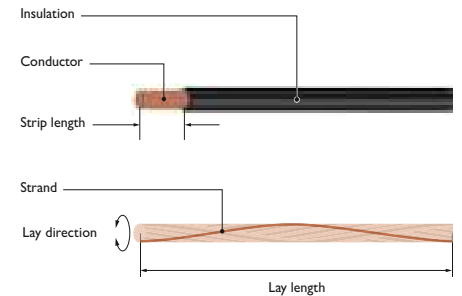
Conductors, cables, and lines all serve the same purpose: to carry electrical signals or energy. In everyday conversation, cables are often equated to lines, as both versions generally consist of several conductors that are isolated from each other. Cables have increased mechanical resistance. This enables them to be used in the ground, underwater or even unprotected outside.

The conductor (also referred to as a wire) consists of a conductive copper or aluminum core surrounded by insulation. Copper is preferred, due to its excellent electrotechnical properties. IEC/DIN EN 60228 (VDE 0295) subdivides conductors into 4 classes of flexibility. They are classed according to the basic flexibility of the conductor. The criteria for this are the individual wire diameters and the number of individual wires.

Another factor that influences the inherent stability is the twist pitch. The twist pitch refers to the length of an individual wire that is required for a 360° rotation. The lower the twist pitch, the more rigid and compact the conductor is, and this also increases the outside diameter. In standard IEC/DIN EN 60228 (VDE 0295), the conductor cross sections are defined by the electric conductance or resistance values. These values are the basis for determining the maximum current carrying capacity. Geometrical data, in particular cross section tolerances, is not specified here. As a result, the actual cross section can deviate substantially from the nominal cross sections.

These days, copper exhibits a purity of up to 99.99%. By using copper, the manufacturer is in a position to replace the actual copper cross section with one of more than 10% less. This presents a challenge when it comes to crimping. Insulation permanently isolates the individual conductors from each other. Furthermore, it also acts as a protective sleeve against external influences. The basic requirement for the insulation material is to achieve the maximum possible electrical resistance; however, the corresponding resulting warmth can detract from this.

Today, the choice of insulation is above all plastic, in all its versions. The type and properties of the plastic determine later possible applications for conductors, cables, and lines. Another criterion is the strength of the insulation. This directly influences the mechanical and electrical loading capacity. The condition of the insulation (hardness, durability, thickness, etc.) is furthermore decisive when choosing the right stripping tool.



Ferrules

The ferrule is a useful tool in conductor assembly and wiring. Using sleeves prevents potential splicing of the individual litz wires. This enables effective, and above all, reliable processing. In DIN 46228, the ferrule is defined as being between 0.5 and 50 mm². This standard is divided into four parts:

- Part 1: Tubular end-sleeves without plastic sleeve
- Part 2: Crimp-type end-splices, with and without insulation grip
- Part 3: Conductor-embracing end-splices, without insulation grip
- Part 4: Tubular end-sleeves with plastic sleeve

In addition to the geometric dimensions, the standard also sets out the material, the coloring according to the cross section, and the test specifications. Furthermore, the sleeve must fit class 2, 5, and 6 conductors.

The conductor cross sections are defined using the electrical resistance values and not, as is the case for sleeves, using the geometric dimensions. Greater variations in the cross sections are therefore possible (also refer to the section on conductors and cables). Due to this, there is a certain discrepancy between the sleeve and the conductor. However, Phoenix Contact

crimping tools are largely designed to compensate for this difference in capacity.

In addition to DIN, there is a French standard for ferrules, NFC 63-023. With the exception of the coloring for some cross sections (see matrix), the NFC standard is based on the DIN standard. UL 486 F as well as Canadian standard C22.2 NO. 291-14 are new additions to the normative framework for ferrules.

These harmonized standards are also based on the DIN standard. However, they deal more with test methods and specific requirements (for example, see table for pull-out values).

In UL 486 F, special sleeves such as “TWIN” for two-conductor connection are also recorded for the first time in the standard. For certification in accordance with the aforementioned UL and CSA standards, comprehensive testing must be carried out by the respective organization. It is not just the sleeves that are tested and certified, but the entire system comprising crimping tools and ferrules.

The key advantages of ferrules:

- Increased, long-term operational safety and contact reliability
- Time-saving further processing (particularly in the case of Push-in terminal blocks)
- Reliable connection, even with repeated rewiring
- Reduction in cable breakages
- Easy cross section detection
- Increased vibration resistance
- Permanently low contact resistance
- Individual litz wires are protected (particularly in the case of screw terminal blocks)
- Consistent clamping in the case of screw connections

Note: Now UL-certified

Phoenix Contact was one of the first tool manufacturers to have ferrules in combination with crimping tools and crimping devices certified in accordance with the “new” UL 486 F standard. Together with conformity with DIN 46228 (1-4), this allows us to satisfy global market requirements in the areas of quality, safety, and compatibility.

Cross section [mm ²]	NFC 63-023	German code	DIN 46228-4	UL486-F (E shape)
0.14		Gray		
0.25		Light blue		
0.34	Green	Turquoise		
0.50	White	Orange	White	White
0.75	Blue	White	Gray	Gray
1.00	Red	Yellow	Red	Red
1.50	Black	Red	Black	Black
2.50	Gray	Blue	Blue	Blue
4.00	Orange	Gray	Gray	Gray
6.00	Green	Black	Yellow	Yellow
10.00	Brown	Ivory	Red	Red
16.00	Ivory	Green	Blue	Blue
25.00	Black	Brown	Yellow	Yellow
35.00	Red	Beige	Red	Red
50.00	Blue	Olive	Blue	Blue

Crimping, pressing, crushing

Crimping describes the mechanical joining of the contact and conductor.

In addition to crimping, two further terms are used, based on standards.

The type of deformation plays a decisive role here. Based on the type of contact, a distinction is made between:

- Crushing,
for insulated cable lugs
- Pressing,
for ferrules, uninsulated cable lugs,
and similar closed connectors.

When processing spade connectors, for example, this is called crimping. Please observe the following key points to ensure a reliable connection between the contact and the conductor.

- The conductor must be processed correctly
- The conductor and the contact must be compatible
- The conductor must be positioned correctly in the contact
- The correct crimping tool must be selected
- The conductor and contact are placed in the designated die nest of the pliers

Professional crimping pliers are always equipped with a pressure lock that can be unlocked. It unlocks as soon as the required crimping pressure is applied. This prevents operation with insufficient pressure. This ensures consistent crimping results for the user with maximum possible pull-out values.

Automatic or semi-automatic crimping machines are often used when processing large numbers of contacts. Standards DIN EN 60352-2 and DIN EN 60999-1 are among the references used to subsequently assess crimping results. In addition to a variety of electrical and mechanical tests, conductor pull-out tests are the decisive criterion.

All tools in the CRIMPFOX series from Phoenix Contact are calibrated and tested in accordance with the applicable standards. These tools ensure gas-tight crimping with long-term stability. We recommend checking the crimp quality every 5000 cycles or once per year, using suitable, calibrated test equipment.



Crimp profiles



WM crimp

For crimping ferrules in accordance with DIN 46228-1/4, UL 486F.



B crimp

For crimping uninsulated spade connectors, slip-on sleeves, and other open crimping sleeves.



Hex crimp

For crimping ferrules in accordance with DIN 46228-1/4, UL 486F, uninsulated tubular cable lugs, coaxial connectors, and FO connectors.



Square crimp

For crimping ferrules in accordance with DIN 46228-1/4, UL 486F, uninsulated tubular cable lugs, coaxial connectors, and FO connectors.



Indent/mandrel crimp

For crimping uninsulated cable lugs and connectors.



Four-mandrel crimp

For crimping turned contacts.



Trapezoidal crimp

For crimping ferrules in accordance with DIN 46228-1/4, UL 486F.



Oval crimp

For crimping insulated cable lugs and connectors.



Double indent crimp

For crimping uninsulated cable lugs and connectors.

Connectors

The crimp connections have proven themselves millions of times over in all areas of industry, automotive technology, aviation, the transport industry, and in medical equipment. Connectors are also known as crimp contacts. They are available in a wide range of versions and designs.

They are divided into two main groups: the solid, turned connectors or contacts are referred to as being “closed”, while the punched, rolled connectors or contacts are “open”. In an electrical installation, these crimp connections fall into the category of “solder-free electrical connections”.

The scope of performance as well as test specifications are described in European standard DIN EN 60352-2. “Crimping” is a joining process that permanently connects one or more conductors with a contact. A stripped conductor is inserted into the crimp zone of the contact and connected by means of a defined crimping process. This results in a permanent, reliable connection that cannot be detached.

The following key groups make up the different connector types, with a large range of dimensions and conductor cross sections:

- Punched-rolled contacts
- Turned contacts
- Hard-soldered crimping cable lugs
- Tubular and compression cable lugs
- Butt connectors
- Insulated crimping cable lugs
- Pin cable lugs
- Uninsulated and insulated ring cable lugs
- Uninsulated and insulated fork-type cable lugs
- Uninsulated and insulated slip-on sleeves
- Coaxial CATV connectors

The B crimp profile is mainly used as a crimping profile for punched-rolled contacts. Solid turned connectors or contacts mainly exhibit profiles in four-mandrel crimping (4/8 indent), square, hexagonal, and B crimp.

Mechanical crimping pliers with a ratchet system or hydraulically operated tools with different die sizes and crimp profiles process cross sections larger than 10 mm².

Depending on the machine type, square and four-mandrel profiles up to 10 mm² are installed in electrical, pneumatic, and electropneumatic crimping machines. For larger cross sections, such as for a vehicle connector, the B crimp profile is also used. Other profiles, such as WM crimp, O crimp, indent crimp, and double indent crimp, are used for processing ferrules, tubular and crimped cable lugs, and connectors up to 300 mm².

DIN 46230, DIN 46234, and DIN 46235 are used as a reference for the standard. This time-saving, cost-effective connection method has proved itself millions of times over for many decades. Getting the right design, however, is a very complex task. For standard-compliant crimp connections, the perfect interplay between the following is crucial:

- Litz wire cross section
- Crimp contact
- Crimping tools
- Correct tool settings

Selecting the crimp profile depends on various parameters, such as the connector or crimp contact, the applicable standard, the area of use, and the specific connector type.

Conductor pull-out test

DIN EN 60352-2

Crimping points can be affected by tensile forces during wiring or operation. Therefore, properly crimped ferrules and connectors must offer a high degree of mechanical safety. To test the tensile load capacity, a crimped conductor is exposed to a predefined, cross-sectional tensile force for a period of up to 60 seconds, and it must withstand this load. The tensile force exerts stress on the conductor at the crimping point. Damage must not occur to the crimping point as a result. Generally, even the maximum tensile force is tolerated, until the connection is destroyed.



Conductor cross sections/conductor pull-out forces

Metric	JIS type	AWG/MCM equivalent		UL 486F - A-F	"IEC 60999-1/2 EN 60947-1 DIN 46228-1/4"	IEC 60352-2	UL486A/B (CU)	JIS C 2805	DIN EN 61238-1 (CU)	DIN EN 61238-1 (CU)
[mm²]	[mm²]	AWG	[mm²]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
0.2	-	24	0.21	20	10	28	22.3			28
0.25				20		32				
0.34	-	22	0.33	20	15	40	35.6			40
0.5	-	20	0.52	20	20	60	57.9			56
0.75	-			30	30	85	89			87
		18	0.82	30	30	90	89			
1	-			35	35	108				108
	1.25							100 (200)		
1.5		16	1.31	40	40	135	134			150
				40	40	150	134			
2.5	2.0	14	2.08	50	50	200	223	100 (290)		230
				50	50	230	223			
	3.5							540		
4				60	60	310	312			310
		12	3.31	60	60	275	312			
6	5.5	10	5.26	80	80	360	356	780		360
10	8	8	8.37			370	401	980	600	
				90	90	380	401			
16	14	6	13.23	100	100		445	1400	960	
25	22	4	21.15	135	135		623	1800	1500	
		3	26.67				712			
35	38	2	33.62	190	190		801	2500	2100	
		1	42.41				890			
50		1/0	53.48		236		1113		3000	
	60							3200		
70		2/0	67.43		285		1235		4200	
95		3/0	85.01		351		1558		5700	
	100							3900		
120		4/0	107.22		427		2003		7200	
		250 MCM	127				2225			
150	150	300 MCM	152				2448	4100	9000	
185		350 MCM	177				2670		11100	
	200							4400		
240		400 MCM	203				2893			
		500 MCM	253		578		3560		14400	
300	250	600 MCM	304				4005	4600	18000	
	325							4800		

Gas tightness

A gas-tight crimp connection is the result of a defined crimping process. The wire strands in one or more conductors and a connector are joined to create a largely homogeneous structure with no gaps. This results in a permanent, reliable connection that cannot be detached.

In addition to the mechanical and electrical properties to be tested, a visual examination of the crimp area provides important information regarding the quality of the connection. To this end, micrographs or images are captured by means of computer tomography. The porosity, elongation at break, and the deformation of the individual wire strands is assessed in this way.

When crimping is performed correctly, it is largely protected from gases such as industrial atmospheres that contain sulfur dioxide and from oxygen, salt spray or other corrosive media. This prevents gases causing corrosion on the individual wire strands during the lifetime of the connection and any resulting deterioration in the electrical properties.

The crimp connections of ferrules differ from connectors or cable lugs. Ferrules are used as splicing protection for class 2, 5, and 6 copper wires that are multi-stranded, fine-stranded, and extra finely stranded. The copper sleeves of ferrules have a material thickness of just 0.15 mm to 0.45 mm. This is significantly thinner than that of cable lugs, for example.

DIN 46228 (Part 1 - 4) describes the mechanical testing and overall dimension check starting from 2.5 mm². Class 5 copper wires in accordance with IEC 60228 are described for the crimping of ferrules. The electrical properties are evaluated in conjunction with the later application, e.g., within a terminal block. Corrosion-free contact areas are a prerequisite for low-resistance and therefore high-performance connections, especially in aggressive environments.

For this reason, the secure positioning of the connection in the terminal point must be ensured.

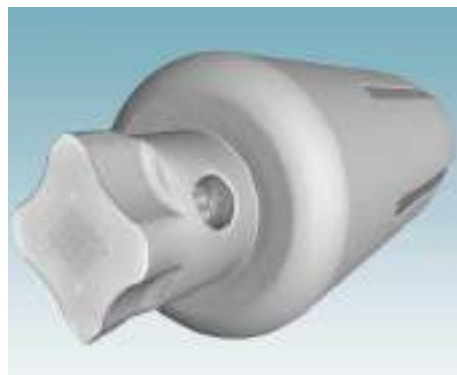
The impact of aggressive media on the terminal point is evaluated in the terminal block standard for copper wires. The voltage drop in accordance with DIN EN 60947-7-1 must not exceed a value of 3.2 mV before or after the test, nor must it exceed 1.5 times the value measured at the start of the test.

The connection is deemed gas-tight if the test object meets the requirements of a test in a condensation changing climate with an atmosphere that contains sulfur dioxide in accordance with DIN 50018 (AHT 2,0 S).

This test involves storage in a condensation changing climate with changing humidity and temperatures. In the first test section, the test object is exposed to an SO₂ volumetric concentration of 0.67% at a temperature of 40°C and humidity of approximately 100% for 8 hours.

After this test, the test objects are left to dry for 16 hours with the door open. This cycle is performed twice, before the test objects are assessed.

When used correctly at contact points, Phoenix Contact crimping tools, ferrules, and connectors achieve a permanent gas-tight connection. Even aggressive media cannot impact this connection.



1000 V tests in accordance with EN 60900

In the strict safety regulations for working on live parts up to 1000 V AC and 1500 V DC, VDE-insulated tools perform a key role. Of course, general safety measures also apply. International standard IEC 60900 places very stringent requirements on insulated tools.

In addition to specifications regarding the geometry and dimensions, this standard primarily defines the properties of the insulation material. Comprehensive test specifications complete the standard. For example, the condition of the insulation and markings is visually inspected.

An impact test checks the resistance of the insulation layer to impacts. Breakages, flaking or cracks must not occur, even at low temperatures (-25°C or -40°C depending on the category).

Following an indentation test (semi-sphere 5 mm in diameter), a force of 20 N is applied to the insulation for 2 hours at 70°C. After cooling, the test point must not exhibit any electrical disruptive discharge, flashover or sparkover over a period of 3 minutes while a voltage of 5 kV is applied (r.m.s. value).

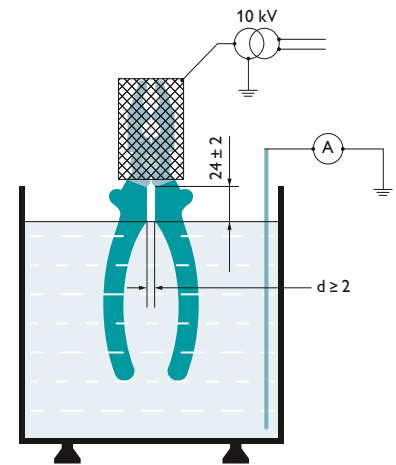
In dielectric tests, pre-conditioned tools (water bath/storage in humidity cabinet) undergo voltage testing. A voltage of 10 kV is applied for three minutes. The discharge current must be less than 1 mA per 200 mm coating length of the hand tool.

Other tests that are performed assess the adhesive strength of the insulation coating, the markings' resistance to chemicals, and the combustion behavior. If the tool successfully passes type testing, this provides the basis for using the VDE logo in conjunction with IEC 60900.

Regular inspections of production sites and test centers are also made by the appropriate VDE approval body. Among other things, this involves taking random product samples from ongoing production and assessing them. The manufacturer already carries out comprehensive testing during the production stage, ensuring full compliance with the requirements of IEC 60900.

The last hurdle is the test for electric strength. Each tool is tested at 10,000 V AC. Only after passing this test can a tool be referred to as VDE-certified and released for sale.

VDE-insulated tools from Phoenix Contact, which are marketed accordingly, provide the user with a high degree of quality and maximum possible safety when working with live parts up to 1000 V AC and 1500 V DC.



Identification colors

The plastic sleeves of the insulated cable lugs and connectors are different colors depending on the cross section. This makes it easy to reliably differentiate between the conductor cross sections.

Conductor cross sections and their corresponding identification colors are listed in the table.

Conductor cross section		Color
[mm²]	AWG	
0.1 - 0.5	26 - 20	Yellow/light green Green
0.25 - 0.75	24 - 18	
0.5 - 1.5	20 - 16	Red Blue
1.5 - 2.5	16 - 14	
4 - 6	12 - 10	Yellow Red
10	8	
16	6	Blue Yellow
25	4	

Cutting

Cable processing starts with trimming or cutting the conductor or cable to length.

Conductors and cables in a wide range of sizes, shapes, and insulation can only be processed professionally and permanently using high-quality tools. Optimum leverage means that you only need to apply low manual force to generate maximum force in the cutting area.

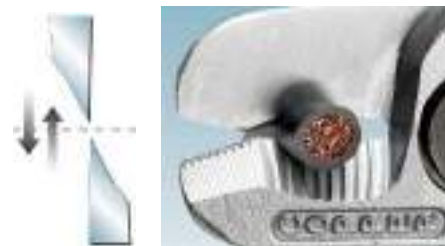
When it comes to cutting conductors and cables in the upper cross section range up to 1400 mm², ratchet-driven cable cutters are the solution. Here, the finely stepped down drives also keep the required manual force to a minimum. Both versions, with direct and indirect force transmission, feature special cutting geometries which help to ensure ease of movement and can be relied upon to produce burr-free right-angle cuts. Accidental deformation of the conductor is thereby prevented.

The cutting method described above, which is also known as shear cutting, is listed under the generic term “splitting” in DIN 8588. The two blades move toward

and past one another and cut (shear) the material without burring.

Bite cutting involves two wedge-shaped blades which move toward one another to cut the material. The wedge angle set for the blades is deliberately large and therefore stable. In addition to the hardening of the entire tool, the cutting area is subsequently hardened again inductively. This makes it possible to sever even extremely hard materials such as piano wire and spring steel with a tensile strength of up to 2300 N/mm² without damaging the tool. Bite cutting is suitable only to a limited extent for cutting through cables and lines.

When used appropriately, the CUTFOX cutting tools from Phoenix Contact can be relied upon for long-term stability and permanently consistent results.



Shear cutting



Bite cutting

Stripping

Stripping is the next step in the manufacturing process for creating a reliable crimp connection. In this case, a distinction is made between stripping and removing the sheath.

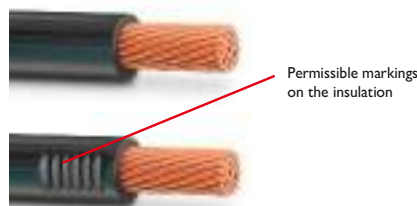
Stripping is used as a generic term as well as to describe the removal of insulation from conductors up to 16 mm². Removal of the sheath describes the stripping process for large conductor cross sections and multi-strand or multi-layered lines and cables. Insulation can be removed professionally and quickly using appropriate stripping tools.

The length of insulation to be removed varies depending on the terminal point or connector. The amount is set using adjustable limit stops, thereby ensuring consistent stripping lengths. When the insulation is removed, make sure that neither the single wires inside nor the braided shield are damaged.

The remaining insulation must not be damaged by the grip pressure, although pressure points on and color changes in the insulation material are permitted. Further faults that need to be prevented are indicated in DIN IEC 60352-2.

Blade geometries suitable for the application in question are used to process special insulation materials. V blades are used for both hard (e.g., Teflon/Radox®) and soft rubber insulations (silicone). In contrast to the straight blade geometry, V blades cut the insulation all the way round, thereby reducing the tear-off force.

In order to satisfy these requirements, Phoenix Contact offers a wide range of stripping tools for the convenient and safe processing of various conductor, line, and cable types.



Correctly stripped conductor in accordance with DIN IEC 60352-2



Cable stripped incorrectly in accordance with DIN IEC 60352-2

Tightening torque of terminal block screws

DIN EN 60947-1

Table 4 of the standard specifies the tightening torque to demonstrate the mechanical strength of screw connections/ screw terminal blocks.

These torques are sufficient for reliably connecting conductors with Phoenix Contact terminal blocks.

The table opposite lists recommended tightening torques which differ from those in this standard and will ensure gas-tight connections with long-term stability.

Extract from DIN EN 60947-1/ EN 60947-1, Table 4

The IEC/EN torque and the recommended tightening torque for Phoenix Contact terminal blocks are specified.

Head screw with slot

Thread	Torque
	[Nm]
M1.6	0.1*
M2.0	0.2*
M2.5 (M2.6)	0.4*
M3	0.5*
M4	1.2*
M4.5	1.8*
M5	2.0*
M6	2.5*
M8	3.5*
M10	4.0* / 10**
M12	14**
M14	19**
M16	25**
M20	36**
M24	50**

* Valid for nuts and screws tightened with screwdrivers.

** Valid for nuts and screws that can be tightened with tools other than screwdrivers.

Color designations

Color	Code
White	WH
Red	RD
Blue	BU
Green	GN
Yellow	YE
Gray	GY
Brown	BN
Orange	OG
Black	BK
Turquoise	TQ
Ivory	IV
Beige	BE
Olive	OL

DIN rails

DIN rails/protective conductor busbars

Extract from IEC 60947-7-2 / EN 60947-7-2 / DIN EN 60947-7-2 / VDE 0611-3

Phoenix Contact type	Rail profile	Material	Short-circuit current rating ≅ ECU conductor [mm²]*	Short-time withstand current 1 s [kA]	Maximum permissible thermal nominal current for PEN function [A]
NS 15 UNPERF 2000MM	DIN rail, in acc. with EN 60715 – 15 x 5.5	Steel	10	1.2	**
NS 15 PERF 2000MM	DIN rail, in acc. with EN 60715 – 15 x 5.5	Steel	10	1.2	**
NS 15-AL PERF 2000MM	DIN rail, dimensions in acc. with EN 60715 – 15 x 5.5	Aluminum	16	1.92	76
NS 32 UNPERF 2000MM	G-profile rail, in acc. with EN 60715 – G 32	Steel	35	4.2	**
NS 32 PERF 2000MM	G-profile rail, in acc. with EN 60715 – G 32	Steel	35	4.2	**
NS 32-CU/35 QMM UNPERF 2000MM	G-profile rail, dimensions in acc. with EN 60715 – G 32	Copper	120	14.4	269
NS 32-CU/120 QMM UNPERF 2000MM	G-profile rail, similar to EN 60715 – G 32	Copper	150	18.0	309
NS 35/7,5 UNPERF 2000MM	DIN rail, in acc. with EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 PERF 2000MM	DIN rail, in acc. with EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 ZN UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 ZN PERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 V2A UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5-CU UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Copper	50	6.0	150
NS 35/7,5-AL UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Aluminum	35	4.2	125
NS 35/15-2,3 UNPERF 2000MM	DIN rail, in acc. with EN 60715 – 35 x 15	Steel	50	6.0	**
NS 35/15 UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15 PERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15 ZN UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15 ZN PERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15-CU UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Copper	95	11.4	232
NS 35/15-AL UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Aluminum	70	8.4	192

* Cross sections calculated in acc. with IEC 60439-1 / EN 60439-1 / DIN EN 60439-1 / VDE 0660-500.

** Protective conductor busbars made of steel must not be used for PEN function.

Air clearances and creepage distances

IEC 60947-7-1 / UL 1059

Carrying out a dimensional check of air clearances and creepage distances verifies that electrical insulation properties are adequate with respect to the following:

- **Application**
- **Expected contamination**
- **Ambient conditions**

The minimum distances are defined in IEC 60947-1 and UL 1059.

The distance is verified by measuring between two adjacent terminal blocks and the support, taking into account the shortest distances.

For the clearance, this means:

The clearance is the shortest distance in the air between two conductive parts. The deciding factors for rating the minimum clearance values are the rated surge voltage and the overvoltage category of the terminal block.

For the creepage distances, this means:

The creepage distance is the shortest distance along the insulating body between

two conductive parts. The deciding factors for determining the minimum creepage distance are the rated voltage, the pollution degree, and the insulation material group of the terminal block.

The minimum values can be taken from the tables of the relevant standards.

IEC 60947-7-1

Phoenix Contact terminal blocks are designed with overvoltage category III and pollution degree 3 with the required distances.

UL 1059

Phoenix Contact terminal blocks are generally designed for a nominal voltage of 600 V in Use Group C.

Detailed information can be found in the data sheets or the catalog documentation.

UL Use Group	Definition	Maximum voltage [V]
A	Operating elements, consoles, and similar devices	150 300 600
B	Conventional devices, including office and electronic data processing equipment, and similar devices	150 300 600
C	Industrial applications, without restrictions	150 300 600
D	Industrial applications, equipment with limited rating	300 600

Certification authorities and marks

Certification authorities and approvals	Country code	Explosion protection	Country code	Marine classification societies	Country code
 IECEx CB Scheme (in combination with certifying body)	International	 International Electrotechnical Commission	International	 DNV GL - MARITIME	DE
 CENELEC Certification Agreement (CCA inspection report) (in combination with certifying body)	EU	 ATEX Directive	EU	 Bureau Veritas	FR
 Canadian Standards Association (CSA)	CA	 Canadian Standards Association (CSA)	CA	 Lloyd's Index of Shipping	GB
 Canadian Standards Association (CSA) - CSA approval for the USA -	US	 Canadian Standards Association (CSA) - CSA approval for the USA -	US	 Nippon Kaiji Kyokai	JP
 Canadian Standards Association (CSA) combined logo - CSA approval for Canada and the USA -	CA US	 Canadian Standards Association (CSA) combined logo - CSA approval for Canada and the USA -	CA US	 Polski Rejestr Statków	PL
 Underwriters Laboratories Inc. (UL)	US	 Underwriters Laboratories Inc. (UL)	US	 Russian Maritime Register of Shipping	RU
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AP 2 METER	5022627	546	BMKL 20X 8 YE	5032138	344	C S6 A 400X650X260	0899127	635	C-RC 120/M10 DIN	3240125	491
AP 2 CM	5022889	546	BMKL 25X 8 WH	5032332	344	C S6 A 450X620X160	0899075	629	C-RC 120/M12 DIN	3240126	491
AP 2-TU	5022630	548	BMKL 25X12 WH	5032374	344	C S6 A 450X620X210	0899108	632	C-RC 120/M8 DIN	3240124	491
AP 2-TU KS	3034372	548	BMKL 26,8X6,8 WH	0807106	344	C S6 A 480X480X160	0899067	629	C-RC 150/M10 DIN	3240128	491
AP 3 METER	5022643	546	BMKL 26X10 YE	0811516	344	C S6 A 480X480X210	0899099	632	C-RC 150/M12 DIN	3240129	491
AP 3 CM	5022876	546	BMKL 27X 8 SR	0803702	344	C S6 A 500X400X160	0899063	629	C-RC 150/M16 DIN	3240130	491
AP 3-TNS 32	5022669	548	BMKL 27X12,5 SR	0803676	344	C S6 A 508X762X210	0899114	632	C-RC 16/M10 DIN	3240097	490
AP 3-TNS 35	5022672	548	BMKL 27X18 SR	0803689	344	C S6 A 508X762X300	0899130	635	C-RC 16/M12 DIN	3240098	490
AP 3-TU	5022656	548	BMKL 27X27 SR	0803692	344	C S6 A 550X740X210	0899111	632	C-RC 16/M5 DIN	3240094	490
AP 3-TU KS	3034373	548	BMKL 50X12 WH	5032387	344	C S6 A 600X400X200	0899083	631	C-RC 16/M6 DIN	3240095	490
AP-ES	5022685	548	BMKL 64X16 WH	0821807	344	C S6 A 600X400X210	0899093	632	C-RC 16/M8 DIN	3240096	490
AP-ME METER	3034361	546	BMKL 64X16 YE	0821810	344	C S6 A 600X600X210	0899105	632	C-RC 185/M10 DIN	3240131	491
AP-ME CM	3034345	546	BMKL 64X34 WH	5032400	344	C S6 A 600X600X300	0899128	635	C-RC 185/M12 DIN	3240132	491
APH-ME	3034374	548				C S6 A 600X650X240	0899126	634	C-RC 185/M16 DIN	3240133	491
APK 1	5022795	551				C S6 A 600X800X300	0899132	635	C-RC 2,5/M10 DIN	3240082	490
APK-HP 2 METER	5022818	551				C S6 A 610X914X210	0899120	632	C-RC 2,5/M3 DIN	3240076	490
APK-TU	5022805	551	C PX A 200X200X168	0899331	636	C S6 A 640X860X210	0899117	632	C-RC 2,5/M3,5 DIN	3240077	490
APT-ME	3034358	548	C PX A 200X300X168	0899332	636	C S6 A 740X980X210	0899123	632	C-RC 2,5/M4 DIN	3240078	490
AZK 35	0702997	553	C PX A 405X305X202	0899333	636	C S6 A 740X980X300	0899136	635	C-RC 2,5/M5 DIN	3240079	490
			C PX A 605X405X252	0899334	636	C S6 A 800X800X300	0899134	635	C-RC 2,5/M6 DIN	3240080	490
			C S4 A 1000X1000X300	0899688	635	C-BCI 1,5/2,8	3240015	497	C-RC 2,5/M8 DIN	3240081	490
			C S4 A 200X200X160	0899569	629	C-BCI 1,5/4,6	3240568	497	C-RC 240/M10 DIN	3240134	491
			C S4 A 200X300X160	0899581	629	C-BCI 2,5/2,8	3240046	497	C-RC 240/M12 DIN	3240135	491
			C S4 A 260X260X160	0899573	629	C-BCI 2,5/4,6	3240569	497	C-RC 240/M16 DIN	3240136	491
			C S4 A 260X260X210	0899634	632	C-BCI 6/2,8	3240047	497	C-RC 25/M10 DIN	3240102	490
			C S4 A 260X300X200	0899628	631	C-BCI 6/4,6	3240570	497	C-RC 25/M12 DIN	3240103	490
			C S4 A 260X380X160	0899593	629	C-BCSI 1,5/9X2,8	3240531	497	C-RC 25/M16 DIN	3240104	490
			C S4 A 260X380X210	0899640	632	C-BCSI 2,5/9X2,8	3240532	497	C-RC 25/M5 DIN	3240099	490
			C S4 A 300X300X160	0899585	629	C-BCSI 6/10X2,8	3240546	497	C-RC 25/M6 DIN	3240100	490
			C S4 A 300X300X200	0899630	631	C-BCSI 6/18X4,5	3240533	497	C-RC 25/M8 DIN	3240101	490
			C S4 A 300X300X210	0899637	632	C-FC 1,5/M3	3240137	494	C-RC 35/M10 DIN	3240107	490
			C S4 A 300X500X160	0899613	629	C-FC 1,5/M3,5	3240138	494	C-RC 35/M12 DIN	3240108	490
B											
B-STIFT	1051993	55									
BF 6,3	1209936	453									
BG/F	1201060	544									
BG/F 1	1201112	544									
BG/S	1201086	544									
BG/SA	1201604	544									
BG/SH	1201099	544									
BG/SHA	1201594	544									

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
C-RC 35/M16 DIN	3240109	490	C-SCFI 2,5/4,8X0,8	3240054	499	C3 S4 A 260X260X210	0899636	633	CD 25X60 BU	3240303	581
C-RC 35/M6 DIN	3240105	490	C-SCFI 2,5/6,3X0,8	3240055	499	C3 S4 A 260X380X210	0899642	633	CD 25X60 WH	3240618	581
C-RC 35/M8 DIN	3240106	490	C-SCFI 6/6,3X0,8	3240056	499	C3 S4 A 300X300X210	0899639	633	CD 25X80	3240197	581
C-RC 50/M10 DIN	3240112	490	C-SCFMI 1,5/6,3X0,8	3240529	500	C3 S4 A 350X500X210	0899654	633	CD 25X80 BU	3240304	581
C-RC 50/M12 DIN	3240113	490	C-SCFMI 2,5/6,3X0,8	3240530	500	C3 S4 A 382X458X210	0899648	633	CD 25X80 WH	3240619	581
C-RC 50/M16 DIN	3240114	490	C-SCM 1,5/6,3X0,8	3240161	498	C3 S4 A 450X620X210	0899660	633	CD 30X100	3240283	581
C-RC 50/M6 DIN	3240110	490	C-SCM 2,5/6,3X0,8	3240162	498	C3 S4 A 480X480X210	0899651	633	CD 30X100 BU	3240308	581
C-RC 50/M8 DIN	3240111	490	C-SCMI 1,5/6,3X0,8	3240058	499	C3 S4 A 508X762X210	0899666	633	CD 30X100 WH	3240623	581
C-RC 6/M10 DIN	3240087	490	C-SCMI 2,5/6,3X0,8	3240059	499	C3 S4 A 550X740X210	0899663	633	CD 30X40	3240278	581
C-RC 6/M12 DIN	3240088	490	C-SCMI 6/6,3X0,8	3240060	499	C3 S4 A 600X400X210	0899645	633	CD 30X40 BU	3240305	581
C-RC 6/M4 DIN	3240083	490	C1 S4 A 1000X1000X300	0899689	635	C3 S4 A 600X600X210	0899657	633	CD 30X40 WH	3240620	581
C-RC 6/M5 DIN	3240084	490	C1 S4 A 200X200X160	0899570	629	C3 S4 A 610X914X210	0899672	633	CD 30X60	3240280	581
C-RC 6/M6 DIN	3240085	490	C1 S4 A 200X300X160	0899582	629	C3 S4 A 640X860X210	0899669	633	CD 30X60 BU	3240306	581
C-RC 6/M8 DIN	3240086	490	C1 S4 A 260X260X160	0899574	629	C3 S4 A 740X980X210	0899675	633	CD 30X60 WH	3240621	581
C-RC 70/M10 DIN	3240117	490	C1 S4 A 260X260X210	0899635	633	C3 S6 A 260X260X210	0899086	633	CD 30X80	3240282	581
C-RC 70/M12 DIN	3240118	490	C1 S4 A 260X380X160	0899594	629	C3 S6 A 260X380X210	0899092	633	CD 30X80 BU	3240307	581
C-RC 70/M16 DIN	3240119	490	C1 S4 A 260X380X210	0899641	633	C3 S6 A 300X300X210	0899089	633	CD 30X80 WH	3240622	581
C-RC 70/M6 DIN	3240115	490	C1 S4 A 300X300X160	0899586	629	C3 S6 A 350X500X210	0899104	633	CD 40X100	3240294	581
C-RC 70/M8 DIN	3240116	490	C1 S4 A 300X300X210	0899638	633	C3 S6 A 382X458X210	0899098	633	CD 40X100 BU	3240312	581
C-RC 95/M10 DIN	3240121	491	C1 S4 A 300X500X160	0899614	629	C3 S6 A 450X620X210	0899110	633	CD 40X100 WH	3240627	581
C-RC 95/M12 DIN	3240122	491	C1 S4 A 350X500X160	0899622	629	C3 S6 A 480X480X210	0899101	633	CD 40X40	3240189	581
C-RC 95/M16 DIN	3240123	491	C1 S4 A 350X500X210	0899653	633	C3 S6 A 508X762X210	0899116	633	CD 40X40 BU	3240309	581
C-RC 95/M8 DIN	3240120	491	C1 S4 A 380X380X160	0899598	629	C3 S6 A 550X740X210	0899113	633	CD 40X40 WH	3240624	581
C-RCEI 1,5/M3	3241201	493	C1 S4 A 382X458X160	0899606	629	C3 S6 A 600X400X210	0899095	633	CD 40X60	3240192	581
C-RCEI 1,5/M3,5	3241202	493	C1 S4 A 382X458X210	0899647	633	C3 S6 A 600X600X210	0899107	633	CD 40X60 BU	3240310	581
C-RCEI 1,5/M4	3241203	493	C1 S4 A 400X260X160	0899578	629	C3 S6 A 610X914X210	0899122	633	CD 40X60 WH	3240625	581
C-RCEI 1,5/M5	3241204	493	C1 S4 A 400X300X160	0899590	629	C3 S6 A 640X860X210	0899119	633	CD 40X80	3240198	581
C-RCEI 1,5/M6	3241205	493	C1 S4 A 400X500X160	0899618	629	C3 S6 A 740X980X210	0899125	633	CD 40X80 BU	3240311	581
C-RCEI 2,5/M3,5	3241206	493	C1 S4 A 450X620X160	0899626	629	CARRIER-EMPLP 22 (27X12,5)	0828985	349	CD 40X80 WH	3240626	581
C-RCEI 2,5/M4	3241207	493	C1 S4 A 450X620X210	0899659	633	CARRIER-EMPLP 22 (27X15)	0828986	349	CD 60X100	3240263	581
C-RCEI 2,5/M5	3241208	493	C1 S4 A 480X480X160	0899610	629	CARRIER-EMPLP 22 (27X18)	0828987	349	CD 60X100 BU	3240316	581
C-RCEI 2,5/M6	3241209	493	C1 S4 A 480X480X210	0899650	633	CARRIER-EMPLP 22 (27X27)	0828988	349	CD 60X100 WH	3240631	581
C-RCEI 2,5/M8	3241210	493	C1 S4 A 500X400X160	0899602	629	CARRIER-EMPLP 22 (27X8)	0828984	349	CD 60X40	3240190	581
C-RCEI 6/M10	3241214	493	C1 S4 A 508X762X210	0899665	633	CARRIER-EMP (1000X15) COVER	0829520	350	CD 60X40 BU	3240313	581
C-RCEI 6/M5	3241211	493	C1 S4 A 508X762X300	0899681	635	CARRIER-EMP (1000X15) GY	0829366	350	CD 60X40 WH	3240628	581
C-RCEI 6/M6	3241212	493	C1 S4 A 550X740X210	0899662	633	CARRIER-EMP (1000X15) TR	0829530	350	CD 60X60	3240193	581
C-RCEI 6/M8	3241213	493	C1 S4 A 600X400X210	0899644	633	CARRIER-EMP (17X15)	0827450	348	CD 60X60 BU	3240314	581
C-RCI 1,5/M3	3240016	492	C1 S4 A 600X600X210	0899656	633	CARRIER-EMP (27X15)	0827451	348	CD 60X60 WH	3240629	581
C-RCI 1,5/M3,5	3240017	492	C1 S4 A 600X600X300	0899679	635	CARRIER-EMP (49X15)	0827452	348	CD 60X80	3240199	581
C-RCI 1,5/M4	3240018	492	C1 S4 A 600X800X300	0899683	635	CARRIER-EMP (60X15)	0827453	348	CD 60X80 BU	3240315	581
C-RCI 1,5/M5	3240019	492	C1 S4 A 610X914X210	0899671	633	CARRIER-EMP (60X30)	0827454	348	CD 60X80 WH	3240630	581
C-RCI 1,5/M6	3240020	492	C1 S4 A 640X860X210	0899668	633	CARRIER-EMP (85,6X54)	0829365	348	CD 80X100	3240264	581
C-RCI 10/M10	3240222	492	C1 S4 A 740X980X210	0899674	633	CARRIER-EMP 22 (27X12,5)	0827446	348	CD 80X100 BU	3240321	581
C-RCI 10/M5	3240219	492	C1 S4 A 740X980X300	0899687	635	CARRIER-EMP 22 (27X15)	0827447	348	CD 80X100 WH	3240636	581
C-RCI 10/M6	3240220	492	C1 S4 A 800X800X300	0899685	635	CARRIER-EMP 22 (27X18)	0827448	348	CD 80X25	3240281	581
C-RCI 10/M8	3240221	492	C1 S6 A 1000X1000X300	0899139	635	CARRIER-EMP 22 (27X27)	0827449	348	CD 80X25 BU	3240317	581
C-RCI 2,5/M3	3240021	492	C1 S6 A 200X200X160	0899048	629	CARRIER-EMP 22 (27X8)	0827445	348	CD 80X25 WH	3240632	581
C-RCI 2,5/M3,5	3240022	492	C1 S6 A 200X300X160	0899054	629	CARRIER-PMP (110X38)	0831056	362	CD 80X40	3240335	581
C-RCI 2,5/M4	3240023	492	C1 S6 A 260X260X160	0899050	629	CARRIER-PMP-ENCLOSED (110X38)	0831068	363	CD 80X40 BU	3240318	581
C-RCI 2,5/M5	3240024	492	C1 S6 A 260X260X210	0899085	633	CARRIER-TM 300	0828282	154	CD 80X40 WH	3240633	581
C-RCI 2,5/M6	3240025	492	C1 S6 A 260X380X160	0899060	629	CARRIER-TMD 300	0828693	154	CD 80X60	3240194	581
C-RCI 2,5/M8	3240026	492	C1 S6 A 260X380X210	0899091	633	CARRIER-TMH 300	0830670	154	CD 80X60 WH	3240634	581
C-RCI 6/M10	3240031	492	C1 S6 A 300X300X160	0899056	629	CARRIER/L-EMP (1000X15) GY	0829559	350	CD 80X80	3240200	581
C-RCI 6/M4	3240027	492	C1 S6 A 300X300X210	0899088	633	CARRIER/L-EMP (1000X15) TR	0829560	350	CD 80X80 BU	3240320	581
C-RCI 6/M5	3240028	492	C1 S6 A 300X500X160	0899070	629	CARRIER/L-PMP-ENCLOSED (110X38)	0831062	363	CD 80X80 WH	3240635	581
C-RCI 6/M6	3240029	492	C1 S6 A 350X500X160	0899074	629	CD 100X100	3240205	581	CD WR	3240284	581
C-RCI 6/M8	3240030	492	C1 S6 A 350X500X210	0899103	633	CD 100X100 BU	3240325	581	CD-HF 100X100	3240364	579
C-SCF 1,5/4,8X0,5	3240154	498	C1 S6 A 380X380X160	0899062	629	CD 100X100 WH	3240640	581	CD-HF 100X100 BU	3240606	579
C-SCF 1,5/4,8X0,8	3240155	498	C1 S6 A 382X458X160	0899066	629	CD 100X40	3240279	581	CD-HF 100X40	3240361	579
C-SCF 1,5/6,3X0,8	3240156	498	C1 S6 A 382X458X210	0899097	633	CD 100X40 BU	3240322	581	CD-HF 100X60	3240362	579
C-SCF 1/2,8X0,8	3240153	498	C1 S6 A 400X260X160	0899052	629	CD 100X40 WH	3240637	581	CD-HF 100X80	3240363	579
C-SCF 2,5/4,8X0,5	3240157	498	C1 S6 A 400X300X160	0899058	629	CD 100X60	3240195	581	CD-HF 100X80 BU	3240605	579
C-SCF 2,5/4,8X0,8	3240158	498	C1 S6 A 400X500X160	0899072	629	CD 100X60 BU	3240323	581	CD-HF 120X60	3240365	579
C-SCF 2,5/6,3X0,8	3240159	498	C1 S6 A 450X620X160	0899076	629	CD 100X60 WH	3240638	581	CD-HF 120X80	3240366	579
C-SCF 6/6,3X0,8	3240160	498	C1 S6 A 450X620X210	0899109	633	CD 100X80	3240201	581	CD-HF 120X80 BU	3240608	579
C-SCFFI 1,5/2,8X0,5	3240534	500	C1 S6 A 480X480X160	0899068	629	CD 100X80 BU	3240324	581	CD-HF 25X25	3240340	579
C-SCFFI 1,5/2,8X0,8	3240535	500	C1 S6 A 480X480X210	0899100	633	CD 100X80 WH	3240639	581	CD-HF 25X40	3240341	579
C-SCFFI 1,5/4,8X0,5	3240536	500	C1 S6 A 500X400X160	0899064	629	CD 120X60	3240196	581	CD-HF 25X40 BU	3240583	579
C-SCFFI 1,5/4,8X0,8	3240537	500	C1 S6 A 508X762X210	0899115	633	CD 120X60 BU	3240326	581	CD-HF 25X60	3240342	579
C-SCFFI 1,5/6,3X0,8	3240538	500	C1 S6 A 508X762X300	0899131	635	CD 120X60 WH	3240641	581	CD-HF 25X60 BU	3240584	579
C-SCFFI 2,5/4,8X0,5	3240539	500	C1 S6 A 550X740X210	0899112	633	CD 120X80	3240202	581	CD-HF 25X80	3240343	579
C-SCFFI 2,5/4,8X0,8	3240540	500	C1 S6 A 600X400X210	0899094	633	CD					

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CD-HF 40X40 BU	3240590	579	CF 500/DIE RCT 4	1212243	511	CRIMPFOX 50R	1212041	421	CRIMPFOX-FO 5,41	1212099	434
CD-HF 40X60	3240349	579	CF 500/DIE SC 1,5	1212241	511	CRIMPFOX 50R CUS	1212766	473	CRIMPFOX-HS 6	1212722	423
CD-HF 40X80	3240350	579	CF 500/DIE SC 6	1212242	511	CRIMPFOX 50R/DIE	1212042	421	CRIMPFOX-M	1212072	435
CD-HF 40X80 BU	3240592	579	CF 500/DIE SR 6-2	1212692	511	CRIMPFOX 6	1212034	417	CRIMPFOX-M 10/DIE	1212080	436
CD-HF 60X100	3240355	579	CF 500/DIE TC 4	1212237	511	CRIMPFOX 6 CUS	1212767	473	CRIMPFOX-M 25/DIE	1212081	436
CD-HF 60X100 BU	3240597	579	CF 500/DIE TC 10	1212260	511	CRIMPFOX 6-M	1212720	417	CRIMPFOX-M 50/DIE	1212082	436
CD-HF 60X40	3240352	579	CF 500/LOC SCF 2,8/1,5	1212249	510	CRIMPFOX 6/DIE	1212035	417	CRIMPFOX-M CX-1/DIE	1212072	436
CD-HF 60X40 BU	3240594	579	CF 500/LOC SCF 4,8/2,5	1212248	510	CRIMPFOX 6S-F	1212043	419	CRIMPFOX-M CX-2/DIE	1212088	436
CD-HF 60X60	3240353	579	CF 500/LOC SCF 6,3/6	1212247	510	CRIMPFOX 6S-F CUS	1212769	473	CRIMPFOX-M CX-3/DIE	1212089	436
CD-HF 60X60 BU	3240595	579	CF 500/LOC SCM 6,3/2,5	1212264	510	CRIMPFOX 6T CUS	1212770	473	CRIMPFOX-M CX-4/DIE	1212745	436
CD-HF 60X80	3240354	579	CF 500/LOC SCM 6,3/6	1212265	510	CRIMPFOX 6T-F	1212038	419	CRIMPFOX-M CX-5/DIE	1212746	436
CD-HF 60X80 BU	3240596	579	CF CRIMPHANDY 0,5	1212463	440	CRIMPFOX 6T-F CUS	1212771	473	CRIMPFOX-M CX-6/DIE	1212747	436
CD-HF 80X100	3240360	579	CF CRIMPHANDY 0,5 SET	1003673	469	CRIMPFOX CENTRUS 10H	1213156	420	CRIMPFOX-M CX-7/DIE	1212748	436
CD-HF 80X100 BU	3240602	579	CF CRIMPHANDY 0,5/GP2	1212515	440	CRIMPFOX CENTRUS 10H CUS	1213176	475	CRIMPFOX-M CX-8/DIE	1212749	436
CD-HF 80X25	3240356	579	CF CRIMPHANDY 0,5/SERVICE-TOOL	1212787	440	CRIMPFOX CENTRUS 10S	1213154	420	CRIMPFOX-M HS-1/DIE	1212282	436
CD-HF 80X40	3240357	579	CF CRIMPHANDY 0,75	1212464	441	CRIMPFOX CENTRUS 10S CUS	1213174	475	CRIMPFOX-M HS/DIE	1219092	436
CD-HF 80X40 BU	3240599	579	CF CRIMPHANDY 0,75 SET	1003672	469	CRIMPFOX CENTRUS 10S SET	1026994	467	CRIMPFOX-M RC 10-1/DIE	1212744	436
CD-HF 80X60	3240358	579	CF CRIMPHANDY 0,75/GP2	1212516	441	CRIMPFOX CENTRUS 10H SET	1213146	420	CRIMPFOX-M RC 10/DIE	1212077	436
CD-HF 80X60 BU	3240600	579	CF CRIMPHANDY 0,75/SERVICE-TOOL	1212786	441	CRIMPFOX CENTRUS 6H CUS	1213166	475	CRIMPFOX-M RC 2,5/DIE	1212078	436
CD-HF 80X80	3240359	579	CF CRIMPHANDY 1,0	1212465	441	CRIMPFOX CENTRUS 6S	1213144	420	CRIMPFOX-M RC 6/DIE	1212079	436
CD-HF 80X80 BU	3240601	579	CF CRIMPHANDY 1,0 SET	1003671	469	CRIMPFOX CENTRUS 6S CUS	1213164	475	CRIMPFOX-M RCI 2,5/DIE	1212074	436
CF 1000 EM	1205215	516	CF CRIMPHANDY 1,0/GP2	1212517	441	CRIMPFOX CENTRUS 6S SET	1213999	467	CRIMPFOX-M RCI 6/DIE	1212073	436
CF 1000 EM4,0	1212663	516	CF CRIMPHANDY 1,0/SERVICE-TOOL	1212759	441	CRIMPFOX DUO 10	1031721	418	CRIMPFOX-M RJ11/DIE	1212091	436
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CF 1000 LOC1,0 GB	1212909	516	CF CRIMPHANDY 1,5/GP2	1212844	441	CRIMPFOX-C 10P/DIE	1212739	437	CRIMPFOX-M SC 2,5/DIE	1212084	436
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CF 1000 SORT1,5	1204326	516	CF CRIMPHANDY/ACCU	1212518	440	CRIMPFOX-C RJ11/DIE	1212735	437	CRIMPFOX-M SCA 2,5-1/DIE	1212743	436
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CF 1000-TOOLKIT 4,0/10	1208271	516	CLIPFIX 35	3022218	538	CRIMPFOX-C120 R35-70/DIE	1212325	427	CRIMPFOX-RC 10 CUS	1212776	474
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E PE A 100X320X81	0899347	644	E S4 A 400X300X160	0899587	628	E1 S6 A 480X480X160	0899038	629	EML (26,5X17,5) R SR	0816883	325
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EO-CF/UT/LED/DUO	0804036	562	EO-L/PT/SH/LED/GN	0804135	564	G-ESS-M20-S66L-NTES-S	1411075	652		KMK UV (25X6)	1014106 240
EO-CF/UT/LED/DUO/GN	0804037	562	EO-L/UT/SH	0804126	564	G-ESS-M20-S66L-STES-S	1411076	652		KMK UV (29X8)	1014107 241
EO-CF/UT/LED/F	0804029	562	EO-L/UT/SH/GN	0804127	564	G-ESS-M25-M66L-NTES-S	1411077	652		KMK UV (40X17)	1014109 241
EO-CF/UT/LED/F/GN	0804030	562	EO-L/UT/SH/LED	0804128	564	G-ESS-M25-M66L-STES-S	1411078	652		KMK UV (60X15)	1014108 241
EO-CF/UT/LED/F/YE	1068030	562	EO-L/UT/SH/LED/DUO	0804130	564	G-ESS-M32-M66L-NTES-S	1411079	652		KMV	0806644 247
EO-CF/UT/LED/GN	0804027	562	EO-L/UT/SH/LED/DUO/GN	0804131	564	G-ESS-M32-M66L-STES-S	1411080	652		KMV 44X9,6	0812007 247
EO-CF/UT/LED/S	0804033	562	EO-L/UT/SH/LED/GN	0804129	564	G-ESS-M40-L66L-NTES-S	1411081	652	L		
EO-CF/UT/LED/YE	1068028	562	EO-N/PT	0804146	566	G-ESS-M40-L66L-STES-S	1411082	652			
EO-CF/UT/S	0804032	562	EO-N/PT/GN	0804147	566	G-ESS-M50-L66L-NTES-S	1411084	652			
EO-CF/UT/YE	1068038	562	EO-N/PT/LED	0804148	566	G-ESS-M50-L66L-STES-S	1411085	652		LM	1004377 237
EO-D/PT	0804009	563	EO-N/PT/LED/DUO	0804150	566	G-ESS-M63-L66L-NTES-S	1411086	652		LS-EML (180X180) BK-WH	0831784 293
EO-D/PT/GN	0804010	563	EO-N/PT/LED/DUO/GN	0804151	566	G-ESS-M63-L66L-STES-S	1411087	652		LS-EMLP (100X60) SR	0831726 291
EO-D/PT/LED	0804011	563	EO-N/PT/LED/GN	0804149	566	G-ESSWU-M20-M66L-NTES-S	1411090	653		LS-EMLP (100X60) WH	0831699 290
EO-D/PT/LED/DUO	0804013	563	EO-N/UT	0804139	566	G-ESSWU-M20S-S66L-NTES-S	1411088	653		LS-EMLP (100X60) YE	0831753 291
EO-D/PT/LED/DUO/GN	0804014	563	EO-N/UT/GN	0804140	566	G-ESSWU-M25-M66L-NTES-S	1411092	653		LS-EMLP (11X9) SR	0831705 291
EO-D/PT/LED/GN	0804012	563	EO-N/UT/LED	0804142	566	G-ESSWU-M32-L66L-NTES-S	1411094	653		LS-EMLP (11X9) WH	0831678 290
EO-D/UT	0804000	563	EO-N/UT/LED/DUO	0804144	566	G-ESSWU-M40-L66L-NTES-S	1411097	653		LS-EMLP (11X9) YE	0831732 291
EO-D/UT/F	0804005	563	EO-N/UT/LED/DUO/GN	0804145	566	G-ESSWU-M50-L66L-NTES-S	1411100	653		LS-EMLP (13X9) SR	0831706 291
EO-D/UT/F/GN	0804006	563	EO-N/UT/LED/GN	0804143	566	G-ESSWU-M63-L66L-NTES-S	1411102	653		LS-EMLP (13X9) WH	0831679 290
EO-D/UT/GN	0804001	563	ES-SSMK-GB 60X18	5032468	352	GBS 3,5-25X12	0830292	153		LS-EMLP (13X9) YE	0831733 291
EO-D/UT/LED	0804003	563	ES-SSMK-GB 96X30	5032455	352	GBS 3,5-25X3,5	0830290	153		LS-EMLP (17,5X12) SR	0831709 291
EO-D/UT/LED/DUO	0804007	563	ESL (25X6)	0801849	234	GBS 5-25X12	0810588	153		LS-EMLP (17,5X12) WH	0831682 290
EO-D/UT/LED/DUO/GN	0804008	563	ESL 24X4	0808231	237	GBS 5-25X5	0829126	153		LS-EMLP (17,5X12) YE	0831736 291
EO-D/UT/LED/GN	0804004	563	ESL 29X8	0808257	235	GKM 1 GY	1750498	242		LS-EMLP (17,5X15) SR	0831710 291
EO-E/PT/SH	0804020	565	ESL 40X17	0808095	235	GKM 2 GY	1750485	243		LS-EMLP (17,5X15) WH	0831683 290
EO-E/PT/SH/GN	0804021	565	ESL 44X7	0808244	541	GLM 4	1201769	536		LS-EMLP (17,5X15) YE	0831737 291
EO-E/PT/SH/LED	0804022	565	ESL 60X10	0804287	543	GLM 5	1201772	536		LS-EMLP (17X7) SR	0831707 291
EO-E/PT/SH/LED/GN	0804023	565				GLM 6	1201785	536		LS-EMLP (17X7) WH	0831680 290
EO-E/UT/SH	0804016	565				GPE 13X 9 WH	0806932	346		LS-EMLP (17X7) YE	0831734 291
EO-E/UT/SH/GN	0804017	565	F			GPE 17,5X12 WH	0806916	346		LS-EMLP (17X9) SR	0831708 291
EO-E/UT/SH/LED	0804018	565				GPE 20X 7 WH	0806990	346		LS-EMLP (17X9) WH	0831681 290
EO-E/UT/SH/LED/GN	0804019	565				GPE 20X 8 WH	0806945	346		LS-EMLP (17X9) YE	0831735 291
EO-E/UT/SH/LED/YE	1068076	565				GPE 22X12 WH	0806929	346		LS-EMLP (180X180) SR	0804347 291
EO-G/PT/SH	0804063	565				GPE 22X22 SR/R	0806628	346		LS-EMLP (180X180) WH	0804346 290
EO-G/PT/SH/GN	0804064	565	FIXOCAP F	1201471	545	GPE 27X 8 SR/R	0806877	346		LS-EMLP (180X180) YE	0804348 291
EO-G/PT/SH/LED	0804065	565				GPE 27X 8 WH/R	0815198	346		LS-EMLP (20X7) SR	0831711 291
EO-G/PT/SH/LED/GN	0804066	565				GPE 27X12,5 SR/R	0806880	346		LS-EMLP (20X7) WH	0831684 290
EO-G/PT/SH/LED/S	0804070	565	G			GPE 27X18 SR/R	0806893	346		LS-EMLP (20X7) YE	0831738 291
EO-G/PT/SH/S	0804069	565				GPE 27X18 WH/R	0815208	346		LS-EMLP (20X8) SR	0831712 291
EO-G/UT/SH	0804051	565				GPE 27X27 SR/R	0806903	346		LS-EMLP (20X8) WH	0831685 290
EO-G/UT/SH/GN	0804052	565				GPE 28X17,5 SR	0807889	346		LS-EMLP (20X8) YE	0831739 291
EO-G/UT/SH/LED	0804053	565				GPE 45X14 SR/R	0807009	346		LS-EMLP (22X12) SR	0831713 291
EO-G/UT/SH/LED/GN	0804054	565	G-EDSWU-M20S-S66L-STES-S	1411091	653	GPE 45X14 WH/R	0815282	346		LS-EMLP (22X12) YE	0831686 290
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EO-G/UT/SH/S	0804058	565	G-EDSWU-M32-L66L-STES-S	1411095	653	GPE 60X12 RD-WH	0824202	346		LS-EMLP (22X22) SR	0831714 291
EO-I/UT	0804087	567	G-EDSWU-M40-L66L-STES-S	1411099	653	GPE 60X12 SR/R	0806631	346		LS-EMLP (22X22) WH	0831687 290
EO-I/UT/GN	0804088	567	G-EDSWU-M50-L66L-STES-S	1411101	653	GPE 60X12 WH/R	0807630	346		LS-EMLP (22X22) YE	0831741 291
EO-I/UT/LED	0804089	567	G-EDSWU-M63-L66L-STES-S	1411103	653	GPE 60X30 WH	0806961	346		LS-EMLP (27X12,5) SR	0831716 291
EO-I/UT/LED/DUO	0804091	567	G-ESIS-M12-S68L-PEPDS-BK	1415106	650	GPE 60X30 WH/R	0815292	346		LS-EMLP (27X12,5) WH	0831689 290
EO-I/UT/LED/DUO/GN	0804092	567	G-ESIS-M12-S68L-PEPDS-BL	1415114	650	GPE 70X32 YE	0824215	346		LS-EMLP (27X12,5) YE	0831743 291
EO-I/UT/LED/GN	0804090	567	G-ESIS-M12-S68N-NEPDS-S	1415123	651					LS-EMLP (27X15) SR	0831717 291
EO-J/PT	0804105	567	G-ESIS-M16-S68L-PEPDS-BK	1415107	650	J				LS-EMLP (27X15) WH	0831690 290
EO-J/PT/GN	0804106	567	G-ESIS-M16-S68L-PEPDS-BL	1415116	650					LS-EMLP (27X15) YE	0831744 291
EO-J/PT/LED	0804107	567	G-ESIS-M16-S68N-NEPDS-S	1415124	651					LS-EMLP (27X18) SR	0831718 291
EO-J/PT/LED/DUO	0804110	567	G-ESIS-M20-S68L-PEPDS-BK	1415108	650					LS-EMLP (27X18) WH	0831691 290
EO-J/PT/LED/DUO/GN	0804111	567	G-ESIS-M20-S68L-PEPDS-BL	1415117	650					LS-EMLP (27X18) YE	0831745 291
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LS-EMLP (27X27) YE	0831746	291	LS-EMSP-AL (150X120)	0831622	283	MM-EMLF (EX10)R C1 GN/WH	0803950	48	NS 35/ 7,5 UNPERF 2000MM	0801681	524
LS-EMLP (27X8) SR	0831715	291	LS-EMSP-AL (150X120) BK	0831633	283	MM-EMLF (EX10)R C1 OG/BK	0803955	48	NS 35/ 7,5 UNPERF/...	1208115	524
LS-EMLP (27X8) WH	0831688	290	LS-EMSP-AL (150X80)	0831621	283	MM-EMLF (EX10)R C1 RD/WH	0803959	48	NS 35/ 7,5 UNPERF/SO/...	1208128	524
LS-EMLP (27X8) YE	0831742	291	LS-EMSP-AL (150X80) BK	0831632	283	MM-EMLF (EX10)R C1 WH/BK	0803937	48	NS 35/ 7,5 V2A UNPERF 2000MM	0801377	526
LS-EMLP (40X20) SR	1019276	291	LS-EMSP-AL (170X180)	0831623	283	MM-EMLF (EX10)R C1 YE/BK	0803941	48	NS 35/ 7,5 WH PERF 2000MM	1204119	529
LS-EMLP (45X14) SR	0831720	291	LS-EMSP-AL (170X180) BK	0831634	283	MM-EMLF (EX12)R C1 BU/WH	0803946	48	NS 35/ 7,5 WH UNPERF 2000MM	1204122	525
LS-EMLP (45X14) WH	0831693	290	LS-EMSP-AL (39X15)	0831615	283	MM-EMLF (EX12)R C1 GN/WH	0803952	48	NS 35/ 7,5 ZN PERF (18X5,2) 2M	0804278	527
LS-EMLP (45X14) YE	0831747	291	LS-EMSP-AL (39X15) BK	0831626	283	MM-EMLF (EX12)R C1 OG/BK	0803956	48	NS 35/ 7,5 ZN PERF 2000MM	1206421	527
LS-EMLP (45X15) SR	0831721	291	LS-EMSP-AL (50X15)	0831616	283	MM-EMLF (EX12)R C1 RD/WH	0803960	48	NS 35/ 7,5 ZN UNPERF 2000MM	1206434	525
LS-EMLP (45X15) WH	0831694	290	LS-EMSP-AL (50X15) BK	0831627	283	MM-EMLF (EX12)R C1 WH/BK	0803938	48	NS 35/15 AL UNPERF 2000MM	1201756	536
LS-EMLP (45X15) YE	0831748	291	LS-EMSP-AL (50X30)	0831617	283	MM-EMLF (EX12)R C1 YE/BK	0803942	48	NS 35/15 AL UNPERF/...	1210213	536
LS-EMLP (49X15) SR	0831722	291	LS-EMSP-AL (50X30) BK	0831628	283	MM-EMLF (EX18)R C1 BU/WH	0803947	48	NS 35/15 CAP	1206573	526
LS-EMLP (49X15) WH	0831695	290	LS-EMSP-AL (50X30) BU	0831645	283	MM-EMLF (EX18)R C1 GN/WH	0803953	48	NS 35/15 CU UNPERF 2000MM	1201895	531
LS-EMLP (49X15) YE	0831749	291	LS-EMSP-AL (50X30) GN	0831649	283	MM-EMLF (EX18)R C1 OG/BK	0803957	48	NS 35/15 PERF 755MM	1207679	532
LS-EMLP (60X15) SR	0831723	291	LS-EMSP-AL (50X30) OG	0831641	283	MM-EMLF (EX18)R C1 RD/WH	0803961	48	NS 35/15 PERF 955MM	1207682	532
LS-EMLP (60X15) WH	0831696	290	LS-EMSP-AL (50X30) RD	0831637	283	MM-EMLF (EX18)R C1 WH/BK	0803939	48	NS 35/15 PERF (18X5,2) 2000MM	1210006	532
LS-EMLP (60X15) YE	0831752	291	LS-EMSP-AL (75,6X54)	0831618	283	MM-EMLF (EX18)R C1 YE/BK	0803943	48	NS 35/15 PERF 1000MM	1207658	532
LS-EMLP (60X30) SR	0831724	291	LS-EMSP-AL (75,6X54) BK	0831629	283	MM-EMLF (EX24)R C1 BU/WH	0803949	48	NS 35/15 PERF 1155MM	1207695	532
LS-EMLP (60X30) WH	0831697	290	LS-EMSP-AL (75,6X54) BU	0831646	283	MM-EMLF (EX24)R C1 GN/WH	0803954	48	NS 35/15 PERF 2000MM	1201730	532
LS-EMLP (60X30) YE	0831751	291	LS-EMSP-AL (75,6X54) GN	0831650	283	MM-EMLF (EX24)R C1 OG/BK	0803958	48	NS 35/15 PERF/...	1208160	532
LS-EMLP (72X20) YE	0804372	291	LS-EMSP-AL (75,6X54) OG	0831642	283	MM-EMLF (EX24)R C1 RD/WH	0803962	48	NS 35/15 UNPERF 1000MM	1207658	530
LS-EMLP (80X40) WH	0804483	290	LS-EMSP-AL (75,6X54) RD	0831638	283	MM-EMLF (EX24)R C1 WH/BK	0803940	48	NS 35/15 UNPERF 2000MM	1201714	530
LS-EMLP (85,6X54) SR	0831725	291	LS-EMSP-AL (90X60)	0831619	283	MM-EMLF (EX24)R C1 YE/BK	0803944	48	NS 35/15 UNPERF/...	1208144	530
LS-EMLP (85,6X54) WH	0831698	290	LS-EMSP-AL (90X60) BK	0831630	283	MM-EMT (EX15)R C1 WH/BK	0803966	46	NS 35/15 UNPERF/SO/...	1208157	530
LS-EMLP (85,6X54) YE	0831752	291	LS-EMSP-V4A (140X100) 1	1030550	282	MM-EMT (EX17)R C1 WH/BK	0803967	46	NS 35/15 WH PERF 2000MM	0806602	533
LS-EMLP 24 (30X12) SR	0831727	292	LS-EMSP-V4A (39X15)	0831653	282	MM-EMT (EX18)R C1 WH/BK	0803968	46	NS 35/15 WH PERF (5,2X25)2000MM	1206476	533
LS-EMLP 24 (30X12) WH	0831700	292	LS-EMSP-V4A (50X15)	0831654	282	MM-EMT (EX23)R C1 WH/BK	0803969	46	NS 35/15 WH UNPERF 2000MM	1204135	530
LS-EMLP 24 (30X12) YE	0831754	292	LS-EMSP-V4A (50X30)	0831655	282	MM-EMT (EX6)R C1 WH/BK	0803963	46	NS 35/15 ZN PERF 2000MM	1206599	533
LS-EMLP 30 (45X10) SR	0831728	292	LS-EMSP-V4A (75,6X54)	0831656	282	MM-EMT (EX8)R C1 WH/BK	0803965	46	NS 35/15 ZN PERF (18X5,2)2000MM	3240571	533
LS-EMLP 30 (45X10) WH	0831701	292	LS-EMSP-V4A (90X60)	0831657	282	MM-TML (EX4,2)R C1 TR/BK	0803979	49	NS 35/15 ZN UNPERF 2000MM	1206586	531
LS-EMLP 30 (45X10) YE	0831755	292	LS-WMTB-AL (100X15)	0831503	189	MM-TML (EX9,5)R C1 TR/BK	0803981	49	NS 35/15-2,3 UNPERF 2000MM	1201798	531
LS-EMLP 32 (38X14) SR	0831729	292	LS-WMTB-AL (100X15) BK	0831511	189	MM-TMT (EX6,35)R C1 WH/BK	0803982	49	NS 35/7,5 WHPERF(5,2X25)2000MM	1206418	529
LS-EMLP 32 (38X14) WH	0831702	292	LS-WMTB-AL (29X8)	0831500	189	MM-TMT (EX9,5)R C1 WH/BK	0803983	49			
LS-EMLP 32 (38X14) YE	0831756	292	LS-WMTB-AL (29X8) BK	0831508	189	MM-WML 3 (EX10)R C1 WH/BK	0803931	45			
LS-EMLP-AL (100X60)	0831586	287	LS-WMTB-AL (40X15)	0831501	189	MM-WML 5 (EX10)R C1 WH/BK	0803932	45			
LS-EMLP-AL (100X60) BK	0831595	287	LS-WMTB-AL (40X15) BK	0831509	189	MM-WMS 3,2 (EX5)R C1 WH/BK	0803923	44	O PX A 121X121X75	0899328	642
LS-EMLP-AL (22X22) BK	1027217	287	LS-WMTB-AL (60X15)	0831502	189	MM-WMS 4,8 (EX9)R C1 WH/BK	0803924	44	O PX A 161X161X93	0899329	642
LS-EMLP-AL (27X15) BK	0831580	287	LS-WMTB-AL (60X15) BK	0831510	189	MM-WMS 6,4 (EX10)R C1 WH/BK	0803925	44	O PX A 200X200X125	0899330	642
LS-EMLP-AL (27X15) BK	0831589	287	LS-WMTB-AL (D25)	0831504	191	MM-WMS 9,5 (EX10)R C1 WH/BK	0803926	44	O PX A 818X1X75	0899327	642
LS-EMLP-AL (27X18)	0831581	287	LS-WMTB-AL (D25) BK	0831512	191	MM-WMS 2-3,2 (EX5)R C1 WH/BK	0803927	45			
LS-EMLP-AL (27X18) BK	0831590	287	LS-WMTB-AL (D30)	0831505	191	MM-WMS 2-4,8 (EX9)R C1 WH/BK	0803928	45			
LS-EMLP-AL (27X27)	0804298	287	LS-WMTB-AL (D30) BK	0831513	191	MM-WMS 2-6,4 (EX10)R C1 WH/BK	0803929	45			
LS-EMLP-AL (49X15)	0831582	287	LS-WMTB-V4A (100X15)	0831519	189	MM-WMS 2-9,5 (EX16)R C1 WH/BK	0803930	45			
LS-EMLP-AL (49X15) BK	0831591	287	LS-WMTB-V4A (29X8)	0831516	189	MOBILE BACKPACK	0803717	34	P-PEN	0815211	54
LS-EMLP-AL (60X15)	0831583	287	LS-WMTB-V4A (40X15)	0831517	189				P-PEN ADAPTER	0815224	54
LS-EMLP-AL (60X15) BK	0831592	287	LS-WMTB-V4A (60X15)	0831518	189				P-SS-ZB 100	1013737	350
LS-EMLP-AL (60X30)	0831584	287	LS-WMTB-V4A (D25)	0831520	191				P-ZB METER	1051854	350
LS-EMLP-AL (60X30) BK	0831593	287	LS-WMTB-V4A (D30)	0831521	191				P1 ENGRAVING UNIT	5145546	346
LS-EMLP-AL (60X30) BU	0831606	287							P1 ENGRAVING VC BAG	5145559	51
LS-EMLP-AL (60X30) GN	0831610	287							P1 GRAVER 0.2	5145478	51
LS-EMLP-AL (60X30) RD	0831598	287							P1 GRAVER 0.3	5145481	51
LS-EMLP-AL (85,6X54)	0831585	287	MEASURING TAPE 5M	1200298	462	NLS-CU 3/10 SN 1000MM	0402174	552	P1 GRAVER 0.5	5145504	51
LS-EMLP-AL (85,6X54) BK	0831594	287	MEASURING TAPE 5M 1/M	1200304	462	NLS-CU 6/ 6 SN 1000MM	0402161	552	P1 GRAVER 0.7	5145517	51
LS-EMLP-AL (85,6X54) BU	0831607	287	MICROFOX-E	1212494	402	NS 15 AL PERF 2000MM	1401763	523	P1 GRAVER 1.0	5145520	51
LS-EMLP-AL (85,6X54) GN	0831611	287	MICROFOX-E ESD	1212485	403	NS 15 PERF 2000MM	1401682	523	P1 UC-MAG 1	5146079	52
LS-EMLP-AL (85,6X54) OG	0831603	287	MICROFOX-EO	1212495	402	NS 15 PERF/...	1208102	523	P1 UC-MAG 2	5146082	52
LS-EMLP-AL (85,6X54) RD	0831599	287	MICROFOX-F	1212493	402	NS 15 UNPERF 2000MM	1401695	522	P1 UC-MAG 3	5146095	52
LS-EMLP-V4A (50X15)	1019818	286	MICROFOX-F ESD	1212484	403	NS 15 UNPERF/...	1208089	522	P1 UC-MAG 4	5146105	52
LS-EMLP-V4A (60X15)	1031604	286	MICROFOX-P	1212491	402	NS 15 UNPERF/SO/...	1208092	522	P1 UC-MAG 5	5146118	52
LS-EMLP-V4A (60X30)	0803991	286	MICROFOX-P ESD	1212482	403	NS 15 WH PERF 2000MM	1204096	523	P1 UC-MAG 6	5146121	52
LS-EMLSP (21,5X15) WH	1045512	284	MICROFOX-PC	1212492	402	NS 30/15 PERF 2000MM	3240262	583	P1 UC-MAG 7	5146568	52
LS-EMLSP (36,3X25) WH	1058990	284	MICROFOX-PC ESD	1212483	403	NS 32 AL UNPERF 2000MM	1201028	534	PAB-KTL	1013261	249
LS-EMLSP (70,8X40) WH	1069847	284	MICROFOX-R	1212490	402	NS 32 CU/120QMM UNPERF 2000MM	1201280	535	PAB-KTL 23	1013957	249
LS-EMP-AL (100X60)	0831667	288	MICROFOX-R ESD	1212481	403	NS 32 CU/35QMM UNPERF 2000MM	1201358	535	PAB-SK 15	1013287	351
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LS-EMP-AL (27X15)	0831661	288	MICROFOX-SB	1212489	402	NS 32 UNPERF 2000MM	1201015	534	PABL 15X4	0808260	229
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LS-EMP-AL (27X18) BK	0831670	289	MM-EML (EX10)R C1 SR/BK	0803974	47	NS 32 WH UNPERF 2000MM	1204106	535	PATG 0/15	1013740	248
LS-EMP-AL (49X15)	0831663	288	MM-EML (EX10)R C1 WH/BK	0803970	47	NS 35/ 7,5 AL PERF 2000MM	0814681	528	PATG 0/18	0820507	248
LS-EMP-AL (49X15) BK	0831671	289	MM-EML (EX12)R C1 SR/BK	0803975	47	NS 35/ 7,5 AL UNPERF 2000MM	0801704	526	PATG 0/23	0828046	248
LS-EMP-AL (60X15)	0831664	288	MM-EML (EX12)R C1 WH/BK	0803971	47	NS 35/ 7,5 CAP	1206560	526	PATG 1/10	1013805	248
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LS-EMP-AL (60X30)	0831665	288	MM-EML (EX18)R C1 WH/BK	0803972	47	NS 35/ 7,5 PERF 755MM	1207640	527	PATG 1/15	1013025	248
LS-EMP-AL (60X30) BK	0831673	289	MM-EML (EX24)R C1 SR/BK	0803978	47	NS 35/ 7,5 PERF (18X5,2)2000MM	1210019	527	PATG 1/18	0820510	248
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SF-TXH 8X60	1200148	450	SZK PZ2 VDE	1206463	444	TMN-ADAPTER PLATE-LS	1012104	32	TOOL-BAG	1212504	469
SF-TXH SET	1212538	451	SZK PZ3 VDE	1212599	444	TMN-BP	1012081	32	TOOL-BAG CUS	1200081	476
SF-UBH	1212590	455	SZS 0,4X2,5 VDE	1205037	442	TMN-EXTRACTION	1012102	32	TOOL-BAG EMPTY	1212500	469
SF-VT VDE	1212598	450	SZS 0,5X3,0 VDE	1207404	442	TMN-EXTRACTION HOSE	1012101	32	TOOL-BAG EMPTY CUS	8191308	478
SHN 13	1209923	458	SZS 0,6X2,5 VDE	1205040	442	TMN-HANDLE SET	1012105	32	TOOL-BELTPOUCH	1212506	468
SHN 5.5	1209855	458	SZS 0,6X3,5	1205053	449	TMN-PRE FILTER	1012100	32	TOOL-BELTPOUCH CUS	1200084	477
SHN 8	1209868	458	SZS 0,6X3,5 VDE	1212602	442	TMP BAG	0803674	34	TOOL-BELTPOUCH EMPTY	1212502	468
SK 2,54/2,8:FORTL.ZAHLEN	0804853	149	SZS 0,8X4,0 VDE	1212508	442	TMP CASE	0803675	34	TOOL-BELTPOUCH EMPTY CUS	8191311	479
SK 2,8 WH:REEL	0805205	148	SZS 1,0X4,0 VDE	1205066	442	TMP-RIBBON 110 BK 100	0803374	34	TOOL-CARRIER	1212503	469
SK 3,5/2,8:FORTL.ZAHLEN	0804073	149	SZS 1,0X5,5 VDE	1209114	442	TMP-RIBBON 110 WH 100	0803376	34	TOOL-CARRIER CUS	1200082	476
SK 3,8 WH:REEL	0805218	148	SZS 1,0X6,5 VDE	1205079	442	TMP-UCT-MAG1	0803342	36	TOOL-CARRIER EMPTY	1212499	469
SK 3,81/2,8:FORTL.ZAHLEN	0804109	149	SZS 1,2X8,0 VDE	1205082	442	TMP-UCT-MAG10	0803352	36	TOOL-CARRIER EMPTY CUS	8191310	478
SK 5	3025338	568				TMP-UCT-MAG11	0803353	36	TOOL-CASE	1212629	476
SK 5,0 WH:REEL	0805221	148				TMP-UCT-MAG12	0803354	36	TOOL-CASE CUS	1200072	476
SK 5,08/2,8:FORTL.ZAHLEN	0804280	149				TMP-UCT-MAG13	0803355	36	TOOL-CASE EMPTY	1212628	476
SK 5,08/3,8:FORTL.ZAHLEN	0804293	150				TMP-UCT-MAG14	0803356	36	TOOL-CASE EMPTY CUS	8191312	478
SK 5-D	3025406	568				TMP-UCT-MAG15	0803357	36	TOOL-KIT CUS	1200085	477
SK 5/3,8:FORTL.ZAHLEN	0804183	150				TMP-UCT-MAG16	0803358	36	TOOL-KIT SOLAR	1212071	467
SK 6,2/3,8:FORTL.ZAHLEN	0804374	150	TESTFOX CC-1	1212211	463	TMP-UCT-MAG17	0803360	36	TOOL-KIT STANDARD	1212422	467
SK 7,5/3,8:FORTL.ZAHLEN	0804455	150	TESTFOX M-1	1212209	464	TMP-UCT-MAG18	0803361	36	TOOL-KIT STANDARD EMPTY	1212423	466
SK 7,5/5:FORTL.ZAHLEN	0804468	151	THERMOFOX	0803984	43	TMP-UCT-MAG19	0803363	36	TOOL-KIT STANDARD EMPTY CUS	8191307	479
SK 7,62/3,8:FORTL.ZAHLEN	0804549	150	THERMOFOX CN	0803985	43	TMP-UCT-MAG2	0803343	36	TOOL-SET ALLROUND 3	1208953	471
SK 7,62/5:FORTL.ZAHLEN	0804552	151	THERMOFOX RU	1037760	43	TMP-UCT-MAG20	0803364	36	TOOL-WRAP	1212505	465
SK 8	3025163	568	THERMOFOX SET	0803986	43	TMP-UCT-MAG21	0803365	36	TOOL-WRAP CUS	1200083	477
SK 8-D	3026861	568	THERMOFOX SET CN	0803987	43	TMP-UCT-MAG22	0803366	36	TOOL-WRAP EMPTY	1212501	465
SK 10,0 WH:REEL	0812188	148	THERMOFOX SET RU	1037743	43	TMP-UCT-MAG23	0803367	36	TOOL-WRAP EMPTY CUS	8191309	479
SK 14	3025176	568	THERMOFOX/ACCU	0805009	43	TMP-UCT-MAG24	0803368	36	TOOL-WRAP-2	1200100	465
SK 14-D	3026874	568	THERMOFOX/ADAPTER	0805010	43	TMP-UCT-MAG25	0803369	37	TOPMARK LASER CARBON FILTER	0803306	32
SK 20	3025189	568	THERMOFOX/BAG	0805003	43	TMP-UCT-MAG26	0803370	37	TOPMARK LASER CLEANING NOZZLE0803310		32
SK 20-D	3026887	568	THERMOFOX/BELT CLIP	0805004	43	TMP-UCT-MAG27	0803371	37	TOPMARK LASER HEPA FILTER	0803305	32
SK 28	3026997	568	THERMOFOX/CASE	0805002	43	TMP-UCT-MAG28	0803372	37	TOPMARK LASER-MAG SHEET	0831836	189
SK 28-D	3027006	568	THERMOFOX/CHARGER	0805012	43	TMP-UCT-MAG29	0803373	37	TOPMARK NEO	1012015	32
SK 35	3026463	568	THERMOFOX/MAGNET HOLDER	0805008	43	TMP-UCT-MAG3	0803344	36	TOPMARK NEO SET	1012018	32
SK 35-D	3026890	568	THERMOMARK CARD 2.0	1085267	35	TMP-UCT-MAG30	0804461	37	TR-PRESSURE ROLLER DR4-50	0801800	40
SK U SR:UNGESTANZT	0800145	344	THERMOMARK CARD-UCT-MAG26	0802988	610	TMP-UCT-MAG31	1025505	37	TR-PRESSURE ROLLER STANDARD	0801802	40
SK U TR:UNGESTANZT	0806699	344	THERMOMARK CARD-US-MAG1	5146451	608	TMP-UCT-MAG32	1082129	37	TRM-ADAPTER SCREW	0804653	41
SK U WH:UNGESTANZT	0800129	344	THERMOMARK PRIME	5148888	34	TMP-UCT-MAG33	1082130	37	TRM-PRESSURE ROLLER 4-50	0804656	41
SK U YE:UNGESTANZT	0800132	344	THERMOMARK ROLL 2.0	1085260	40	TMP-UCT-MAG4	0803345	36	TRM-PRESSURE ROLLER STANDARD0804655		41
SK U/2,8 WH:UNBEDRUCKT	0803883	148	THERMOMARK ROLL-CUTTER	5146422	40	TMP-UCT-MAG5	0803347	36	TSD 02 SAC	1208487	460
SK U/3,8 WH:UNBEDRUCKT	0803906	148	THERMOMARK ROLL-CUTTER/P	5146435	40	TMP-UCT-MAG6	0803348	36	TSD 04 SAC	1208429	460
SK U/5,0 WH:UNBEDRUCKT	0803922	148	THERMOMARK ROLL-ERH	5146448	40	TMP-UCT-MAG7	0803349	36	TSD 08 SAC	1212597	460
SKS 14	3240211	569	THERMOMARK ROLLMASTER 300	0804501	41	TMP-UCT-MAG8	0803350	36	TSD 20 SAC	1212020	460
SKS 14-D	3240214	569	THERMOMARK ROLLMASTER 600	0804663	41	TMP-UCT-MAG9	0803351	36	TSD 25 SAC	1212315	460
SKS 14-NS35	3240217	569	THERMOMARK ROLLMASTER-CASE0804643		41	TMP-UM-MAG1	0831200	39	TSD-M 1,2NM	1212224	453
SKS 14-SNS35	3062799	569	THERMOMARK ROLLMASTER-CUTTER0804502		41	TMP-UM-MAG10	0803334	39	TSD-M 3NM	1212225	453
SKS 20	3240212	569	THERMOMARK ROLLMASTER-CUTTER/P080450341			TMP-UM-MAG11	0803681	39	TSD-M 6NM	1212226	453
SKS 20-D	3240215	569	THERMOMARK W2	5146147	42	TMP-UM-MAG3	0831202	39	TSD-M SAC-BIT ADAPTER	1212600	460
SKS 20-NS35	3240218	569	THERMOMARK-RIBBON 110	5145384	40	TMP-UM-MAG4	0831203	39			
SKS 20-SNS35	3062809	569	THERMOMARK-RIBBON 110-EML-HT0800342		335	TMP-UM-MAG5	0803328	39			
SKS 32-D	3062906	569	THERMOMARK-RIBBON 110-TC	0801371	35	TMP-UM-MAG6	0803329	39			

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U			UC-EMP (27X12,5) YE	0825434	302	UC-TMF 8 YE	0818632	112	UC-WMCO 2,9 (12X3,5) RD	0827564	199
			UC-EMP (27X15) SR	0825439	301	UC-TMF 10	0818124	113	UC-WMCO 2,9 (12X3,5) YE	0827561	199
			UC-EMP (27X15) SR	0825441	301	UC-TMF 10 BU	0818690	113	UC-WMCO 2,9 (21X3,5)	0827162	199
			UC-EMP (27X15) YE	0825440	301	UC-TMF 10 RD	0818700	113	UC-WMCO 2,9 (21X3,5) BU	0827574	199
UBE	0800310	542	UC-EMP (27X18)	0825445	302	UC-TMF 10 YE	0818687	113	UC-WMCO 2,9 (21X3,5) RD	0827576	199
UBE/D	0800307	543	UC-EMP (27X18) SR	0825447	302	UC-TMF 12	0819233	113	UC-WMCO 2,9 (21X3,5) YE	0827573	199
UBE/D (60X10)	0803719	543	UC-EMP (27X18) YE	0825446	302	UC-TMF 12 BU	0817853	113	UC-WMCO 3,6 (12X4,5)	0827176	199
UBE/D N+C	0803122	543	UC-EMP (27X27)	0825451	302	UC-TMF 12 RD	0817840	113	UC-WMCO 3,6 (12X4,5) BU	0827586	199
UC-EM (10X7)	0825487	303	UC-EMP (27X27) SR	0825453	302	UC-TMF 12 YE	0819246	113	UC-WMCO 3,6 (12X4,5) RD	0827588	199
UC-EM (10X7) TQ	0823766	303	UC-EMP (27X27) YE	0825452	302	UC-TMF 16	0819262	113	UC-WMCO 3,6 (12X4,5) YE	0827585	199
UC-EM (10X8)	0825491	303	UC-EMP (27X8)	0825427	302	UC-TMF 16 BU	0817905	113	UC-WMCO 3,6 (21X4,5)	0827190	199
UC-EM (10X8) TQ	0825492	303	UC-EMP (27X8) SR	0825429	302	UC-TMF 16 RD	0817824	113	UC-WMCO 3,6 (21X4,5) BU	0827598	199
UC-EM (17,5X7,5)	0825495	303	UC-EMP (27X8) YE	0825428	302	UC-TMF 16 YE	0819259	113	UC-WMCO 3,6 (21X4,5) RD	0827600	199
UC-EM (17,5X8)	0823766	303	UC-EMP (49X15)	0825457	301	UC-TMF 5 (5X7)	0820044	112	UC-WMCO 3,6 (21X4,5) YE	0827597	199
UC-EM (17,5X9)	0827490	304	UC-EMP (49X15) SR	0825459	301	UC-TMN 10	0828554	114	UC-WMCO 3,6 TOOL	0827804	199
UC-EM (17,5X9) YE	0827494	304	UC-EMP (49X15) YE	0825458	301	UC-TMN 5,2	0822945	114	UC-WMCO 4,9 (12X5)	0827733	200
UC-EM (18X8)	0825497	304	UC-EMP (60X15)	0822259	301	UC-TMN 7,5	0821823	114	UC-WMCO 4,9 (12X5) BU	0827735	200
UC-EM (19X9)	0827492	304	UC-EMP (60X15) SR	0827647	301	UC-WMC 1,9 (15X4)	0828004	194	UC-WMCO 4,9 (12X5) RD	0827737	200
UC-EM (19X9) YE	0827496	304	UC-EMP (60X15) YE	0825330	301	UC-WMC 1,9 (15X4) BU	0828010	194	UC-WMCO 4,9 (12X5) YE	0827734	200
UC-EM (20X7)	0825499	304	UC-EMP (60X30)	0822275	301	UC-WMC 1,9 (15X4) RD	0828006	194	UC-WMCO 4,9 (21X5)	0827747	200
UC-EM (20X7) TQ	0825500	304	UC-EMP (60X30) SR	0827648	301	UC-WMC 1,9 (15X4) YE	0828008	194	UC-WMCO 4,9 (21X5) BU	0827749	200
UC-EM (20X9)	0825503	305	UC-EMP (60X30) YE	0825331	301	UC-WMC 1,9 (30X4)	0830283	194	UC-WMCO 4,9 (21X5) RD	0827751	200
UC-EM (20X9) BU	1017723	305	UC-EMSP (50X15)	0828706	300	UC-WMC 3,1 (15X4)	0818205	195	UC-WMCO 4,9 (21X5) YE	0827748	200
UC-EM (20X9) GN	1017721	305	UC-EMSP (50X15) BU	0803134	300	UC-WMC 3,1 (15X4) BU	0818742	195	UC-WMCO 5,8 TOOL	0827805	200
UC-EM (20X9) RD	1017722	305	UC-EMSP (50X15) RD	0803135	300	UC-WMC 3,1 (15X4) RD	0818755	195	UC-WMCO TOOL SET	0827807	198
UC-EM (20X9) SR	1057865	305	UC-EMSP (50X15) SR	0828708	300	UC-WMC 3,1 (15X4) YE	0818739	195	UC-WMT (10X4)	0819372	202
UC-EM (20X9) TQ	0825504	305	UC-EMSP (50X15) YE	0828707	300	UC-WMC 3,1 (23X4)	0818218	195	UC-WMT (10X4) BU	0820992	202
UC-EM (20X9) YE	0827637	305	UC-EMSP (50X30)	0828709	300	UC-WMC 3,1 (23X4) BU	0818797	195	UC-WMT (10X4) RD	0821001	202
UC-EM (21X8)	0825507	305	UC-EMSP (50X30) SR	0828711	300	UC-WMC 3,1 (23X4) RD	0818807	195	UC-WMT (10X4) YE	0819385	202
UC-EMLP (11X9)	0819291	298	UC-EMSP (50X30) YE	0828710	300	UC-WMC 3,1 (23X4) YE	0818784	195	UC-WMT (12X4)	0823517	202
UC-EMLP (11X9) SR	0828094	298	UC-PMLP (110X38)	0831020	360	UC-WMC 3,1 (30X4)	0819631	195	UC-WMT (12X4) BU	0823575	202
UC-EMLP (11X9) YE	0822602	298	UC-PMLP (90X38)	0831017	360	UC-WMC 3,1 (30X4) BU	0820756	195	UC-WMT (12X4) RD	0823614	202
UC-EMLP (15X5)	0819301	298	UC-PMP (110X38)	0831019	361	UC-WMC 3,1 (30X4) RD	0820769	195	UC-WMT (12X4) YE	0823591	202
UC-EMLP (15X5) SR	0828095	298	UC-PMP (90X38)	0831016	361	UC-WMC 3,1 (30X4) YE	0819644	195	UC-WMT (15X4)	0819398	202
UC-EMLP (15X5) YE	0822615	298	UC-PMP (90X38) BU	0831048	361	UC-WMC 4,4 (15X5,5)	0818182	196	UC-WMT (15X4) BU	0821030	202
UC-EMLP (17X15)	0827885	298	UC-PMP (90X38) VT	0831047	361	UC-WMC 4,4 (15X5,5) BU	0818849	196	UC-WMT (15X4) RD	0821043	202
UC-EMLP (17X15) SR	0827887	298	UC-PMP (90X38) YE	0831046	361	UC-WMC 4,4 (15X5,5) RD	0818852	196	UC-WMT (15X4) YE	0819408	202
UC-EMLP (17X15) YE	0827886	298	UC-TM 4	0818111	110	UC-WMC 4,4 (15X5,5) YE	0818836	196	UC-WMT (18X4)	0820293	202
UC-EMLP (17X9)	0819314	298	UC-TM 4 BU	0818247	110	UC-WMC 4,4 (23X5,5)	0818195	196	UC-WMT (18X4) BU	0821072	202
UC-EMLP (17X9) SR	0828096	298	UC-TM 4 RD	0818250	110	UC-WMC 4,4 (23X5,5) BU	0818894	196	UC-WMT (18X4) RD	0821085	202
UC-EMLP (17X9) YE	0822628	298	UC-TM 4 YE	0818234	110	UC-WMC 4,4 (23X5,5) RD	0818904	196	UC-WMT (18X4) YE	0820303	202
UC-EMLP (20X8)	0819327	298	UC-TM 5	0818108	110	UC-WMC 4,4 (23X5,5) YE	0818881	196	UC-WMT (23X4)	0819411	203
UC-EMLP (20X8) SR	0828097	298	UC-TM 5 BU	0818292	110	UC-WMC 4,4 (30X5,5)	0819657	196	UC-WMT (23X4) BU	0821111	203
UC-EMLP (20X8) YE	0822631	298	UC-TM 5 RD	0818302	110	UC-WMC 4,4 (30X5,5) BU	0820879	196	UC-WMT (23X4) RD	0821124	203
UC-EMLP (22X22)	0825463	298	UC-TM 5 YE	0818289	110	UC-WMC 4,4 (30X5,5) RD	0820882	196	UC-WMT (23X4) SR	0802719	203
UC-EMLP (22X22) SR	0825465	298	UC-TM 6	0818085	110	UC-WMC 5,6 (23X8)	0825382	197	UC-WMT (23X4) YE	0819424	203
UC-EMLP (22X22) YE	0825464	298	UC-TM 6 BU	0818344	110	UC-WMC 5,6 (23X8) BU	0825383	197	UC-WMT (30X4)	0819437	203
UC-EMLP (22X22)-EX	0803224	299	UC-TM 6 RD	0818357	110	UC-WMC 5,6 (23X8) RD	0825387	197	UC-WMT (30X4) BU	0821153	203
UC-EMLP (27X12,5)	0825469	298	UC-TM 6 YE	0818331	110	UC-WMC 5,6 (23X8) YE	0825386	197	UC-WMT (30X4) RD	0821166	203
UC-EMLP (27X12,5) BU	0830853	298	UC-TM 8	0818072	110	UC-WMC 5,6 (30X8)	0825396	197	UC-WMT (30X4) YE	0819440	203
UC-EMLP (27X12,5) GN	0830854	298	UC-TM 8 BU	0818399	110	UC-WMC 5,6 (30X8) BU	0825397	197	UC-WMTB (44X15)	0828376	204
UC-EMLP (27X12,5) SR	0825471	298	UC-TM 8 RD	0818409	110	UC-WMC 5,6 (30X8) RD	0825401	197	UC-WMTB (44X15) BU	0828381	204
UC-EMLP (27X12,5) YE	0825470	298	UC-TM 8 YE	0818386	110	UC-WMC 5,6 (30X8) YE	0825400	197	UC-WMTB (44X15) RD	0828377	204
UC-EMLP (27X15)	0827894	298	UC-TM 10	0818069	111	UC-WMC 7,5 (23X8)	0818179	197	UC-WMTB (44X15) YE	0828379	204
UC-EMLP (27X15) SR	0827896	298	UC-TM 10 BU	0818441	111	UC-WMC 7,5 (23X8) BU	0818946	197	UC-WMTB (52X30)	5775288	204
UC-EMLP (27X15) YE	0827895	298	UC-TM 10 RD	0818454	111	UC-WMC 7,5 (23X8) RD	0819039	197	UC-WMTB (52X50)	5775289	204
UC-EMLP (27X18)	0825475	298	UC-TM 10 YE	0818438	111	UC-WMC 7,5 (23X8) YE	0818933	197	UC-WMTBA (24X5)	0820426	205
UC-EMLP (27X18) SR	0825477	298	UC-TM 12	0819194	111	UC-WMC 7,5 (30X8)	0819673	197	UC-WMTBA (24X5) BU	0820552	205
UC-EMLP (27X18) YE	0825476	298	UC-TM 12 BU	0817785	111	UC-WMC 7,5 (30X8) BU	0820950	197	UC-WMTBA (24X5) RD	0820565	205
UC-EMLP (27X18)-EX	0803225	299	UC-TM 12 RD	0817701	111	UC-WMC 7,5 (30X8) RD	0820963	197	UC-WMTBA (24X5) YE	0820439	205
UC-EMLP (27X27)	0825481	298	UC-TM 12 YE	0819204	111	UC-WMC 7,5 (30X8) YE	0819686	197	UC-WMTBA (29X8)	0820183	205
UC-EMLP (27X27) SR	0825483	298	UC-TM 16	0819217	111	UC-WMCO 1,6 (12X3)	0827092	198	UC-WMTBA (29X8) BU	0820594	205
UC-EMLP (27X27) YE	0825482	298	UC-TM 16 BU	0817769	111	UC-WMCO 1,6 (12X3) BU	0827514	198	UC-WMTBA (29X8) RD	0820604	205
UC-EMLP (27X27)-EX	0803226	299	UC-TM 16 RD	0817798	111	UC-WMCO 1,6 (12X3) RD	0827516	198	UC-WMTBA (29X8) YE	0820390	205
UC-EMLP (49X15)	0827903	298	UC-TM 16 YE	0819220	111	UC-WMCO 1,6 (12X3) YE	0827513	198	UC-WMTBA (60X11)	0820468	205
UC-EMLP (49X15) SR	0827905	298	UC-TMF 4	0818166	112	UC-WMCO 1,6 (21X3)	0827106	198	UC-WMTBA (60X11) BU	0820633	205
UC-EMLP (49X15) YE	0827904	298	UC-TMF 4 BU	0818496	112	UC-WMCO 1,6 (21X3) BU	0827526	198	UC-WMTBA (60X11) RD	0820646	205
UC-EMLP (49X15)-EX	0803227	299	UC-TMF 4 RD	0818506	112	UC-WMCO 1,6 (21X3) RD	0827528	198	UC-WMTBA (60X11) YE	0820471	205
UC-EMLP (60X15)	0819330	298	UC-TMF 4 YE	0818483	112	UC-WMCO 1,6 (21X3) YE	0827525	198	UC1-TM 5	0821784	156

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UC1-TMF 4 BU	0828203	157	UCT-TM 16 BU	0829182	133	UCT-WMCO 5,4 (23X8)	0832105	209	UM1-TM (12X10) BU	0833068	169
UC1-TMF 4 RD	0828200	157	UCT-TM 16 RD	0829179	133	UCT-WMCO 6,1 (23X8)	0832106	209	UM1-TM (12X10) RD	0833065	169
UC1-TMF 4 YE	0828202	157	UCT-TM 16 YE	0829147	133	UCT-WMCO 6,8 (23X8)	0832107	209	UM1-TM (12X10) YE	0833067	169
UC1-TMF 5	0821425	157	UCT-TM 3,5	0829484	132	UCT-WMCO 7,5 (23X8)	0832108	209	UM1-TM (3,5X12)	0830925	168
UC1-TMF 5 BU	0828207	157	UCT-TM 3,5 BU	0829508	132	UCT-WMS 3,2 (12X4)	0828570	208	UM1-TM (3,5X12) BU	0833023	168
UC1-TMF 5 RD	0828205	157	UCT-TM 3,5 RD	0829505	132	UCT-WMS 3,2 (12X4) YE	0828572	208	UM1-TM (3,5X12) RD	0833020	168
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UC1-TMF 6 YE	0828211	157	UCT-TM 4 YE	0828733	132	UCT-WMT (10X4) RD	0801433	206	UM1-TM (5X10) YE	0833027	168
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UC2-TM 6	0821674	158	UCT-TM 6 YE	0828737	132	UCT-WMT (15X4) RD	0801448	206	UM1-TM (6X10) YE	0833042	168
UC2-TM 8	0821755	158	UCT-TM 7,62	0828738	133	UCT-WMT (15X4) YE	0801447	206	UM1-TM (6X12)	0830909	169
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UC2F-TM 5	0822181	159	UCT-TM 7,62 RD	0829510	133	UCT-WMT (18X4) BU	0801468	206	UM1-TM (6X12) RD	0833050	169
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UCT-EM (10X7)	0801498	307	UCT-TMF 10 YE	0829207	135	UCT-WMT (30X4) RD	0801424	207	UM1-TM (8X12) YE	0833062	169
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UCT-EM (10X8)	0801485	307	UCT-TMF 12 RD	0829212	135	UCT-WMTBA (24X4) YE	1014083	210	UM1-TMF (3,5X5) RD	0833000	171
UCT-EM (10X8) TQ	0801486	307	UCT-TMF 12 YE	0829211	135	UCT-WMTBA (29X6)	1014084	210	UM1-TMF (3,5X5) YE	0833002	171
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UCT-EM (17X9) YE	0801476	309	UCT-TMF 6	0828746	134	UCT1-TMF 6 BU	0829247	162	UM1-U-TM (6X10)	0830907	170
UCT-EM (18X8)	0801488	310	UCT-TMF 6 BU	0829197	134	UCT1-TMF 6 RD	0829244	162	UM1-U-TM (6X10) BU	0833048	170
UCT-EM (20X7)	0801494	310	UCT-TMF 6 RD	0829194	134	UCT1-TMF 6 YE	0829246	162	UM1-U-TM (6X10) RD	0833045	170
UCT-EM (20X7) TQ	0801495	310	UCT-TMF 6 YE	0828747	134	UCT1-U-TM 5	0803204	162	UM1-U-TM (6X10) YE	0833047	170
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US-EMLF (D39)	0803845	323	US-EMLP (85,6X54) YE	0828907	315	US-EMSP (75,6X54)	0828787	319	US-WMTB (24X5) BU	0829324	214
US-EMLP (100X60)	0828807	315	US-EMLP-HA (17X7)	0830988	316	US-EMSP (75,6X54) SR	0828930	319	US-WMTB (24X5) RD	0829320	214
US-EMLP (100X60) SR	0828910	315	US-EMLP-HA (20X9)	0830989	316	US-EMSP (75,6X54) YE	0828929	319	US-WMTB (24X5) YE	0828958	214
US-EMLP (100X60) YE	0828909	315	US-EMLP-HA (60X30)	0830990	316	US-EMSP (90X60)	0828788	319	US-WMTB (29X8)	0828772	214
US-EMLP (104X135)	0830304	315	US-EMLP-HA (60X30) SR	0830991	316	US-EMSP (90X60) BU	0830308	319	US-WMTB (29X8) BU	0829331	214
US-EMLP (104X135) SR	0830306	315	US-EMLP-HA (85,6X54)	0830992	316	US-EMSP (90X60) RD	0820297	319	US-WMTB (29X8) RD	0829327	214
US-EMLP (104X135) YE	0830305	315	US-EMLP-HA (85,6X54) SR	0830993	316	US-EMSP (90X60) SR	0828932	319	US-WMTB (29X8) YE	0828959	214
US-EMLP (11X9)	0828789	314	US-EMLP-HA 24 (30X15/12,5)	0803874	316	US-EMSP (90X60) YE	0828931	319	US-WMTB (44X15)	0828773	214
US-EMLP (11X9) SR	0828872	314	US-EMLP-HA 24 (30X15/12,5) SR	0803875	316	US-EMT (103X17)	0803846	321	US-WMTB (44X15) BU	0829338	214
US-EMLP (11X9) YE	0828871	314	US-EMLP-HA 24 (30X18/8)	0803876	316	US-EMT (103X17) TQ	0803847	321	US-WMTB (44X15) RD	0829334	214
US-EMLP (15X5)	0828790	314	US-EMLP-HA 24 (30X18/8) SR	0803877	316	US-EMT (103X23)	0803856	321	US-WMTB (44X15) YE	0828960	214
US-EMLP (15X5) SR	0828874	314	US-EMLP-HA 30 (45X10)	0803878	316	US-EMT (103X23) TQ	0803857	321	US2-TM 100	0829268	167
US-EMLP (15X5) YE	0828873	314	US-EMLP-HA 30 (45X10) SR	0803879	316	US-EMT (13X109)	0803862	321	USA 10	1201578	545
US-EMLP (17,5X15)	0830839	314	US-EMLSP (28X10)	0830343	320	US-EMT (13X109) GY	0803864	321	USA 10 BK	1200993	545
US-EMLP (17X15)	0828793	314	US-EMLSP (28X10) SR	0830329	320	US-EMT (13X109) TQ	0803865	321	USA 10/4,6	1202713	545
US-EMLP (17X15) SR	0828880	314	US-EMLSP (28X10) YE	0830344	320	US-EMT (13X109) YE	0803863	321	USS 4	1203149	461
US-EMLP (17X15) YE	0828879	314	US-EMP (100X15)	0829521	317	US-EMT (23X109)	0803858	321			
US-EMLP (17X7)	0828792	314	US-EMP (100X15) SR	0829523	317	US-EMT (23X109) GY	0803860	321			
US-EMLP (17X7) SR	0828878	314	US-EMP (100X15) YE	0829522	317	US-EMT (23X109) TQ	0803861	321			
US-EMLP (17X7) YE	0828877	314	US-EMP (17X15)	0828774	317	US-EMT (23X109) YE	0803859	321			
US-EMLP (20X9)	0828795	314	US-EMP (17X15) SR	0828843	317	US-EMT (31X12,5)	0803848	321			
US-EMLP (20X9) SR	0828884	314	US-EMP (17X15) YE	0828842	317	US-EMT (31X12,5) GY	0803850	321			
US-EMLP (20X9) YE	0828883	314	US-EMP (20X9)	0829439	317	US-EMT (31X12,5) YE	0803849	321			
US-EMLP (22X22)	0828796	314	US-EMP (25X6)	0829435	317	US-EMT (50/28X13)	0803853	321			
US-EMLP (22X22) SR	0828886	314	US-EMP (25X6)-1	0802754	317	US-EMT (50/28X13) TQ	0803855	321			
US-EMLP (22X22) YE	0828885	314	US-EMP (27,9X17,4)	0830980	317	US-EMT (50X26)	0803851	321			
US-EMLP (27X12,5)	0828798	314	US-EMP (27,9X17,4) SR	0803300	317	US-EMT (50X26) TQ	0803852	321			
US-EMLP (27X12,5) SR	0828892	314	US-EMP (27X12,5)	0828776	317	US-PML-ESS100 (D60) YE	0803873	369			
US-EMLP (27X12,5) YE	0828891	314	US-EMP (27X12,5) SR	0828847	317	US-PML-ESS100 (D90) YE	0803872	369			
US-EMLP (27X15)	0828799	314	US-EMP (27X12,5) YE	0828846	317	US-PML-F100 (50X25)	0803866	370			
US-EMLP (27X15) RD	0804448	314	US-EMP (27X15)	0828777	317	US-PML-F100 (D50)	0803869	370			
US-EMLP (27X15) SR	0828894	314	US-EMP (27X15) SR	0828849	317	US-PML-F200 (50X25)	0803868	370			
US-EMLP (27X15) YE	0828893	314	US-EMP (27X15) YE	0828848	317	US-PML-F200 (D50)	0803871	370			
US-EMLP (27X18)	0828800	314	US-EMP (27X18)	0828778	317	US-PML-GHS100 (13X13)	1014287	371			
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WF 1000/SB	1212279	507	WIREFOX-D CX-8/SB	1212310	412	WMS 19,1 (EX30)R YE	0800306	227	WMS 6,4 (60X10)R	0800367	224
WF 1000/TR	1212416	507	WIREFOX-D CX-9	1212171	412	WMS 19,1 (EX30)RL	0800326	226	WMS 6,4 (60X10)R YE	0800401	224
WG-D HF 10,2	3241101	623	WIREFOX-D CX-9/SB	1212311	412	WMS 19,1 (EX30)RL BK	0800434	227	WMS 6,4 (60X10)RXL YE	0803104	225
WG-D HF 10,2 BK	3241102	623	WIREFOX-D SHIELD	1212172	409	WMS 19,1 (EX30)RL YE	0800334	227	WMS 6,4 (EX10)R	0800292	226
WG-D HF 12,7	3241103	623	WIREFOX-D SR 6	1212507	413	WMS 2,4 (15X4)R	0800379	224	WMS 6,4 (EX10)R BK	0800419	227
WG-D HF 12,7 BK	3241104	623	WIREFOX-D SR 6-1	1212511	413	WMS 2,4 (15X4)R YE	0800412	224	WMS 6,4 (EX10)R YE	0800303	227
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WG-D HF 16 BK	3241106	623	WIREFOX-E 16	1212707	405	WMS 2,4 (15X4)RXL	0800396	225	WMS 6,4 (EX10)RL BK	0800430	227
WG-D HF 20,3	3241107	623	WIREFOX-E 4	1212704	404	WMS 2,4 (30X4)R	0800373	224	WMS 6,4 (EX10)RL YE	0800331	227
WG-D HF 20,3 BK	3241108	623	WIREFOX-E 6SC	1212705	405	WMS 2,4 (30X4)R YE	0800407	224	WMS 9,5 (30X16)R	0800377	224
WG-D HF 7,6	3241099	623	WIREFOX-MP VDE	1212528	409	WMS 2,4 (30X4)RL	0800386	225	WMS 9,5 (30X16)R YE	0800411	224
WG-D HF 7,6 BK	3241100	623	WM-CARRIER/B (48X10)LPR	0830423	233	WMS 2,4 (30X4)RXL	0800394	225	WMS 9,5 (30X16)RL	0804267	225
WG-S HF 120	3241121	601	WM-CARRIER/B (55X15)LPR	0830424	233	WMS 2,4 (60X4)R	0800363	224	WMS 9,5 (60X16)R	0800368	224
WG-S HF 120 BK	3241122	601	WM-CARRIER/B (85X15)LPR	0830425	233	WMS 2,4 (60X4)R YE	0800398	224	WMS 9,5 (60X16)R YE	0800402	224
WG-S HF 15	3241109	601	WML 12 (25X19)R	0800076	217	WMS 2,4 (60X4)RL	0800383	225	WMS 9,5 (60X16)RL	0803105	225
WG-S HF 15 BK	3241110	601	WML 14 (25X19)A4	0830693	216	WMS 2,4 (60X4)RXL	0800392	225	WMS 9,5 (60X16)RL YE	0803106	225
WG-S HF 150	3241123	601	WML 14 (25X19)A4 YE	0830694	216	WMS 2,4 (EX4)R	0800289	226	WMS 9,5 (EX16)R	0800293	226
WG-S HF 150 BK	3241124	601	WML 14 (25X19)R	0817536	217	WMS 2,4 (EX4)R BK	0800415	227	WMS 9,5 (EX16)R BK	0800421	227
WG-S HF 20	3241111	601	WML 14 (25X19)R YE	0817549	217	WMS 2,4 (EX4)R YE	0800300	227	WMS 9,5 (EX16)R YE	0800304	227
WG-S HF 20 BK	3241112	601	WML 14 (25X19)RL	0830678	217	WMS 2,4 (EX4)RL	0800319	226	WMS 9,5 (EX16)RL	0800324	226
WG-S HF 40	3241121	601	WML 14 (38X19)R	0817552	217	WMS 2,4 (EX4)RL BK	0800427	227	WMS 9,5 (EX16)RL BK	0800431	227
WG-S HF 40 BK	3241114	601	WML 14 (38X19)R YE	0830675	217	WMS 2,4 (EX4)RL YE	0800328	227	WMS 9,5 (EX16)RL YE	0800332	227
WG-S HF 50	3241115	601	WML 14 (38X19)RL	0830679	217	WMS 25,4 (60X40)R	0800371	224	WMS-2 HF 12,7 (60X20)RL	0833200	221
WG-S HF 50 BK	3241116	601	WML 18 (12X12)R	0817507	217	WMS 25,4 (60X40)R YE	0800405	224	WMS-2 HF 12,7 (60X20)RL YE	0833201	221
WG-S HF 70	3241117	601	WML 20 (31X25)R	0828457	217	WMS 25,4 (EX40)R	0800296	226	WMS-2 HF 12,7 (EX20)R YE	0804521	223
WG-S HF 70 BK	3241118	601	WML 22 (25X25)R	0800078	217	WMS 25,4 (EX40)R BK	0800424	227	WMS-2 HF 12,7 (EX20)RL	0864100	223
WG-S HF 80	3241119	601	WML 22 (35X25)A4	0830695	216	WMS 25,4 (EX40)R YE	0800308	227	WMS-2 HF 12,7 (EX20)RL BU	0864102	223
WG-S HF 80 BK	3241120	601	WML 22 (35X25)A4 YE	0830696	216	WMS 25,4 (EX40)RL	0800327	226	WMS-2 HF 12,7 (EX20)RL RD	0864101	223
WIREFOX 10	1212150	407	WML 3 (13X10)A4	0830687	216	WMS 25,4 (EX40)RL BK	0800435	227	WMS-2 HF 12,7 (EX20)RL YE	0833246	223
WIREFOX 10 CUS	1212760	475	WML 3 (13X10)A4 YE	0830688	216	WMS 25,4 (EX40)RL YE	0800335	227	WMS-2 HF 19,1 (60X30)RL	0833202	221
WIREFOX 10 VDE	1212366	409	WML 3 (13X10)R	0800073	217	WMS 3,2 (15X5)R	0800380	224	WMS-2 HF 19,1 (60X30)RL YE	0833203	221
WIREFOX 10/CJ	1200286	404	WML 36 (25X38)A4	0830697	216	WMS 3,2 (15X5)R YE	0800413	224	WMS-2 HF 19,1 (EX30)R YE	0804537	223
WIREFOX 10/SB	1212152	405	WML 36 (25X38)A4 YE	0830698	216	WMS 3,2 (15X5)RL	0800390	225	WMS-2 HF 19,1 (EX30)RL	0864103	223
WIREFOX 10/WS	1200285	404	WML 36 (25X38)R	0817510	217	WMS 3,2 (30X5)R	0800374	224	WMS-2 HF 19,1 (EX30)RL BU	0864105	223
WIREFOX 16	1212155	407	WML 46 (25X38)R	0800067	217	WMS 3,2 (30X5)R YE	0800408	224	WMS-2 HF 19,1 (EX30)RL RD	0864104	223
WIREFOX 16 CUS	1212761	475	WML 5 (25X10)A4	0830689	216	WMS 3,2 (30X5)RL	0800387	225	WMS-2 HF 2,4 (15X4)RL	0801000	220
WIREFOX 16-1	1212157	408	WML 5 (25X10)A4 YE	0830690	216	WMS 3,2 (30X5)RXL	0804268	225	WMS-2 HF 2,4 (15X4)RL YE	0801004	220
WIREFOX 16-1/SB	1204944	408	WML 5 (25X10)R	0817523	217	WMS 3,2 (30X5)RXL YE	1019184	225	WMS-2 HF 2,4 (30X4)RL	0801006	220
WIREFOX 16/CJ	1200287	405	WML 5 (25X10)R YE	0830673	217	WMS 3,2 (60X5)R	0800364	224	WMS-2 HF 2,4 (30X4)RL YE	0801007	220
WIREFOX 16/SB	1212153	405	WML 5 (25X10)RL	0830676	217	WMS 3,2 (60X5)R YE	0800399	224	WMS-2 HF 2,4 (60X4)RL	0801008	220
WIREFOX 2,5	1212368	404	WML 6 (13X13)R	0816252	217	WMS 3,2 (60X5)RL	0800384	225	WMS-2 HF 2,4 (60X4)RL YE	0801009	220
WIREFOX 2,5/SB	1212369	404	WML 6 (13X13)R YE	0830674	217	WMS 3,2 (60X5)RXL YE	0803102	225	WMS-2 HF 25,4 (60X40)RL	0833204	221
WIREFOX 2,5/WS	1212370	404	WML 6 (13X13)RL	0830677	217	WMS 3,2 (EX5)R	0800290	226	WMS-2 HF 25,4 (60X40)RL YE	0833205	221
WIREFOX 4	1212156	406	WML 7,5 (13X13)R	0800074	217	WMS 3,2 (EX5)R BK	0800416	227	WMS-2 HF 25,4 (EX40)RL	0864106	223
WIREFOX 4 CUS	1212762	475	WML 7,5 (17X9)R	0828444	217	WMS 3,2 (EX5)R YE	0800301	227	WMS-2 HF 25,4 (EX40)RL BU	0864108	223
WIREFOX 4/SB	1212151	404	WML 7,5 (25X13)A4	0830691	216	WMS 3,2 (EX5)RL	0800320	226	WMS-2 HF 25,4 (EX40)RL RD	0864107	223
WIREFOX 6SC	1212158	406	WML 7,5 (25X13)A4 YE	0830692	216	WMS 3,2 (EX5)RL BK	0800428	227	WMS-2 HF 3,2 (15X5)RL	0801001	220
WIREFOX 6SC CUS	1212763	475	WML 7,5 (25X13)R	0800075	217	WMS 3,2 (EX5)RL YE	0800329	227	WMS-2 HF 3,2 (15X5)RL YE	0801010	220
WIREFOX 6SC/SB	1212314	405	WML HF 14(25X19)R	0830818	218	WMS 38,1 (EX60)R	0800298	226	WMS-2 HF 3,2 (30X5)RL	0801011	220
WIREFOX ASI	1212154	408	WML HF 14(25X19)R YE	0830819	218	WMS 38,1 (EX60)R BK	0800425	227	WMS-2 HF 3,2 (30X5)RL YE	0801012	220
WIREFOX ASI/SB	1208076	408	WML HF 22(25X25)R	0830820	218	WMS 38,1 (EX60)R YE	0800309	227	WMS-2 HF 3,2 (60X5)RL	0801002	220
WIREFOX FC	1212619	408	WML HF 22(25X25)R YE	0830821	218	WMS 4,8 (15X9)R	0800382	224	WMS-2 HF 3,2 (60X5)RL YE	0801013	220
WIREFOX FC/SB	1200284	408	WML HF 3(13X10)R	0830812	218	WMS 4,8 (15X9)R YE	0800414	224	WMS-2 HF 3,2 (60X5)RXL	0801000	220
WIREFOX SAC	1212623	408	WML HF 3(13X10)R YE	0830813	218	WMS 4,8 (15X9)RL	0800391	225	WMS-2 HF 3,2 (EX5)R	0803994	222
WIREFOX SAC-1	1212757	408	WML HF 36(25X38)R	0830822	218	WMS 4,8 (15X9)RXL	0800397	225	WMS-2 HF 3,2 (EX5)RL	0803903	222
WIREFOX SAC-1/SB	1200283	408	WML HF 36(25X38)R YE	0830823	218	WMS 4,8 (30X9)R	0800375	224	WMS-2 HF 3,2 (EX5)RL YE	0833242	222
WIREFOX SAC/SB	1200282	408	WML HF 5(25X10)R	0830814	218	WMS 4,8 (30X9)R YE	0800409	224	WMS-2 HF 38,1 (60X60)RL	0833206	221
WIREFOX-D 11	1212160	410	WML HF 5(25X10)R YE	0830815	218	WMS 4,8 (30X9)RL	0800388	225	WMS-2 HF 38,1 (60X60)RL YE	0833207	221
WIREFOX-D 11/SB	1212312	410	WML HF 7,5(25X13)R	0830816	218	WMS 4,8 (30X9)RXL	0800395	225	WMS-2 HF 38,1 (EX60)R YE	0804538	223
WIREFOX-D 13	1212162	411	WML HF 7,5(25X13)R YE	0830817	218	WMS 4,8 (30X9)RXL YE	0803313	225	WMS-2 HF 38,1(EX60)RL	0864109	223
WIREFOX-D 16	1212173	411	WML-FLAG 6 (20X10)R	0830711	219	WMS 4,8 (60X9)R	0800366	224	WMS-2 HF 38,1(EX60)RL BU	0864111	223
WIREFOX-D 28	1212174	411	WML-FLAG 6 (30X10)R	0830712	219	WMS 4,8 (60X9)R YE	0800400	224	WMS-2 HF 38,1(EX60)RL RD	0864110	223
WIREFOX-D 40	1212161	411	WML-FLAGV 6 (20X10)R	0830713	219	WMS 4,8 (60X9)RL	0800385	225	WMS-2 HF 4,8 (15X9)RL	0801014	220
WIREFOX-D 40/SB	1212313	411	WML-FLAGV 6 (30X10)R	0830714	219	WMS 4,8 (60X9)RXL	0800393	225	WMS-2 HF 4,8 (15X9)RL YE	0801015	220
WIREFOX-D CX 6,35	1212733	413	WML-RFID-HF 14 (25X19)R	0830386	217	WMS 4,8 (60X9)RXL YE	0803103	225	WMS-2 HF 4,8 (60X9)RL	0801016	220
WIREFOX-D CX-1	1212163	412	WMS 12,7 (30X20)R	0804266	224	WMS 4,8 (EX9)R	0800291	226	WMS-2 HF 4,8 (30X9)RL YE	0801017	220
WIREFOX-D CX-1/SB	1212303	412	WMS 12,7 (60X20)R	0800369	224	WMS 4,8 (EX9)R BK	0800418	227	WMS-2 HF 4,8 (60X9)RL	0801019	220
WIREFOX-D CX-2	1212164	412	WMS 12,7 (60X20)R YE	0800403	224	WMS 4,8 (EX9)R YE	0800302	227	WMS-2 HF 4,8 (60X9)RL YE	0801020	220
WIREFOX-D CX-2/SB	1212304	412	WMS 12,7 (60X20)RL YE	0803107	225	WMS 4,8 (EX9)RL	0800321	226	WMS-2 HF 4,8 (60X9)RXL	0801021	220
WIREFOX-D CX-3	1212165	412	WMS 12,7 (EX20)R	0800294	226	WMS 4,8 (EX9)RL BK	0800429	227	WMS-2 HF 4,8 (EX9)R	0803995	222
WIREFOX-D CX-3/SB	1212305	412	WMS 12,7 (EX20)R BK	0800422	227	WMS 4,8 (EX9)RL YE	0800330	227	WMS-2 HF 4,8 (EX9)R BU	0819991	222
WIREFOX-D CX-4	1212166	412	WMS 12,7 (EX20)R YE	0800305	227	WMS 50,8 (EX80)R	0800299	226	WMS-2 HF 4,8 (EX9)R GN	0804496	222
WIREFOX-D CX-4/SB	1212306	412	WMS 12,7 (EX20)RL	0800325	226	WMS 50,8 (EX80)R BK	0800426	227	WMS-2 HF 4,8 (EX9)R OL	0804498	222
WIREFOX-D CX-5	1212167	412	WMS 12,7 (EX20)RL BK	0800432	227	WMS 50,8 (EX80)R YE	0800311	227	WMS-2 HF 4,8 (EX9)R RD	0819992	222
WIREFOX-D CX-5/SB	1212307	412	WMS 12,7 (EX20)RL YE	0800333	227	WMS 6,4 (15X10)R	0801593	224	WMS-2 HF 4,8 (EX9)R YE	0804520	222
WIREFOX-D CX-6	1212168	412	WMS 19,1 (60X30)R	0800370	224	WMS 6,4 (15X10)RL	0801594	225	WMS-2 HF 4,8 (EX9)RL	0803904	222
WIREFOX-D CX-6/SB	1212308	412	WMS 19,1 (60X30)R YE	0800404	224	WMS 6,4 (15X10)RXL	0801595	225	WMS-2 HF 4,8 (EX9)RL YE	0833243	222
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WMS-2 HF 6,4 (60X10)RL YE	0801025	221	WP-CN BRASS M16	3241147	605	WP-G BRASS IP65 M40	3241064	600	WP-GR HF IP66 M20 BK	3240954	591
WMS-2 HF 6,4 (EX10)R BU	0819993	222	WP-CN BRASS M20	3241148	605	WP-G BRASS IP65 PG11	3241053	600	WP-GR HF IP66 M25 BK	3240955	591
WMS-2 HF 6,4 (EX10)R RD	0819994	222	WP-CN BRASS M25	3241149	605	WP-G BRASS IP65 PG16	3241054	600	WP-GR HF IP66 M32 BK	3240956	591
WMS-2 HF 6,4 (EX10)RL	0803905	222	WP-CN BRASS M32	3241150	605	WP-G BRASS IP65 PG21	3241055	600	WP-GR HF IP66 M40 BK	3240957	591
WMS-2 HF 6,4 (EX10)RL YE	0833244	222	WP-CN BRASS M40	3241151	605	WP-G BRASS IP65 PG29	3241056	600	WP-GR HF IP66 PG11 BK	3240946	590
WMS-2 HF 9,5 (15X16)RL	0801003	221	WP-CN BRASS PG11	3241154	605	WP-G BRASS IP65 PG36	3241057	600	WP-GR HF IP66 PG16 BK	3240947	590
WMS-2 HF 9,5 (30X16)RL	0801026	221	WP-CN BRASS PG16	3241155	605	WP-G BRASS IP65 PG7	3241051	600	WP-GR HF IP66 PG21 BK	3240948	590
WMS-2 HF 9,5 (EX16)RL YE	0801027	221	WP-CN BRASS PG21	3241156	605	WP-G BRASS IP65 PG9	3241052	600	WP-GR HF IP66 PG29 BK	3240949	590
WMS-2 HF 9,5 (60X16)RL	0801028	221	WP-CN BRASS PG29	3241157	605	WP-G HF IP66 M10 BK	3240895	587	WP-GR HF IP66 PG36 BK	3240950	590
WMS-2 HF 9,5 (60X16)RL YE	0801029	221	WP-CN BRASS PG36	3241158	605	WP-G HF IP66 M12 BK	3240896	587	WP-GR HF IP66 PG7 BK	3240944	590
WMS-2 HF 9,5 (EX16)R	0804524	222	WP-CN BRASS PG7	3241152	605	WP-G HF IP66 M16 BK	3240897	587	WP-GR HF IP66 PG9 BK	3240945	590
WMS-2 HF 9,5 (EX16)R BU	0804525	222	WP-CN BRASS PG9	3241153	605	WP-G HF IP66 M20 BK	3240898	587	WP-GR HF IP69K M12 BK	3240938	591
WMS-2 HF 9,5 (EX16)R RD	0804526	222	WP-CN PA M12	3241132	604	WP-G HF IP66 M25 BK	3240899	587	WP-GR HF IP69K M16 BK	3240939	591
WMS-2 HF 9,5 (EX16)R YE	0804535	222	WP-CN PA M16	3241133	604	WP-G HF IP66 M32 BK	3240900	587	WP-GR HF IP69K M20 BK	3240940	591
WMS-2 HF 9,5 (EX16)RL YE	0833245	222	WP-CN PA M20	3241134	604	WP-G HF IP66 M40 BK	3240901	587	WP-GR HF IP69K M25 BK	3240941	591
WMS-OT HF 3,2 (EX5)R	1044236	228	WP-CN PA M25	3241135	604	WP-G HF IP66 PG36 BK	3240890	586	WP-GR HF IP66 PG29 BK	3240942	591
WMS-OT HF 3,2 (EX5)R YE	1044239	228	WP-CN PA M32	3241136	604	WP-G HF IP66 PG16 BK	3240891	586	WP-GR HF IP69K M40 BK	3240943	591
WMS-OT HF 3,2 (EX5)RL	1044253	228	WP-CN PA M40	3241137	604	WP-G HF IP66 PG21 BK	3240892	586	WP-GR HF IP69K PG11 BK	3240932	591
WMS-OT HF 3,2 (EX5)RL YE	1044254	228	WP-CN PA PG11	3241140	605	WP-G HF IP66 PG29 BK	3240893	586	WP-GR HF IP69K PG16 BK	3240933	591
WMS-OT HF 4,8 (EX9)R	1044243	228	WP-CN PA PG16	3241141	604	WP-G HF IP66 PG36 BK	3240894	586	WP-GR HF IP69K PG21 BK	3240934	591
WMS-OT HF 4,8 (EX9)R YE	1044245	228	WP-CN PA PG21	3241142	605	WP-G HF IP66 PG7 BK	3240888	586	WP-GR HF IP69K PG29 BK	3240935	591
WMS-OT HF 4,8 (EX9)RL	1044256	228	WP-CN PA PG29	3241143	605	WP-G HF IP66 PG9 BK	3240889	586	WP-GR HF IP69K PG36 BK	3240936	591
WMS-OT HF 4,8 (EX9)RL YE	1044259	228	WP-CN PA PG36	3241144	605	WP-G HF IP69K M10 BK	3240881	587	WP-GR HF IP69K PG7 BK	3240930	591
WMT 2,4 (15X4)R	0816281	230	WP-CN PA PG7	3241138	605	WP-G HF IP69K M12 BK	3240882	587	WP-GR HF IP69K PG9 BK	3240931	591
WMT 3,5 (15X5)R	0817222	230	WP-CN PA PG9	3241139	605	WP-G HF IP69K M16 BK	3240883	587	WP-GT BRASS M10	3241030	599
WMT 4,2 (15X6)R	0817235	230	WP-EC TPE HF 10,0 BK	3240974	585	WP-G HF IP69K M20 BK	3240884	587	WP-GT BRASS M12	3241031	599
WMT 5,5 (15X8)R	0817248	230	WP-EC TPE HF 13,0 BK	3240975	585	WP-G HF IP69K M25 BK	3240885	587	WP-GT BRASS M16	3241032	599
WMT 8,4 (17X10)R	0817251	230	WP-EC TPE HF 15,8 BK	3240976	585	WP-G HF IP69K M32 BK	3240886	587	WP-GT BRASS M20	3241033	599
WMT (15X4)RL	1080099	229	WP-EC TPE HF 21,2 BK	3240977	585	WP-G HF IP69K M40 BK	3240887	587	WP-GT BRASS M25	3241034	599
WMTB (24X8)R	0816278	231	WP-EC TPE HF 28,5 BK	3240978	585	WP-G HF IP69K PG11 BK	3240876	587	WP-GT BRASS M32	3241035	599
WMTB (35X15)R	0817316	231	WP-EC TPE HF 34,5 BK	3240979	585	WP-G HF IP69K PG16 BK	3240877	587	WP-GT BRASS M40	3241036	599
WMTB HF (40X12)R	0830407	232	WP-EC TPE HF 42,5 BK	3240980	585	WP-G HF IP69K PG21 BK	3240878	587	WP-GT BRASS PG11	3241025	599
WMTB HF (40X12)R BU	0804977	232	WP-FS HF IP68 M10	3241173	607	WP-G HF IP69K PG29 BK	3240879	587	WP-GT BRASS PG16	3241026	599
WMTB HF (40X12)R DBU	0802991	232	WP-FS HF IP68 M12	3241174	607	WP-G HF IP69K PG36 BK	3240880	587	WP-GT BRASS PG21	3241027	599
WMTB HF (40X12)R GN	0804978	232	WP-FS HF IP68 M16	3241175	607	WP-G HF IP69K PG7 BK	3240874	587	WP-GT BRASS PG29	3241028	599
WMTB HF (40X12)R RD	0803314	232	WP-FS HF IP68 M20	3241176	607	WP-G HF IP69K PG9 BK	3240875	587	WP-GT BRASS PG36	3241029	599
WMTB HF (40X12)R YE	0830408	232	WP-FS HF IP68 M25	3241177	607	WP-G PP HF M10	3240995	595	WP-GT BRASS PG7	3241023	599
WMTB HF (55X15)R	0830409	232	WP-FS HF IP68 M32	3241178	607	WP-G PP HF M12	3240996	595	WP-GT BRASS PG9	3241024	599
WMTB HF (55X15)R BU	0804979	232	WP-FS HF IP68 M40	3241179	607	WP-G PP HF M16	3240997	595	WP-GT PP HF M12	3241010	595
WMTB HF (55X15)R DBU	0802992	232	WP-FS HF IP68 PG11	3241182	607	WP-G PP HF M20	3240998	595	WP-GT PP HF M16	3241011	595
WMTB HF (55X15)R GN	0804980	232	WP-FS HF IP68 PG16	3241183	607	WP-G PP HF M25	3240999	595	WP-GT PP HF M20	3241012	595
WMTB HF (55X15)R RD	0803315	232	WP-FS HF IP68 PG21	3241184	607	WP-G PP HF M32	3241000	595	WP-GT PP HF M25	3241013	595
WMTB HF (55X15)R YE	0830410	232	WP-FS HF IP68 PG29	3241185	607	WP-G PP HF M40	3241001	595	WP-GT PP HF M32	3241014	595
WMTB HF (55X25)R	0830411	232	WP-FS HF IP68 PG36	3241186	607	WP-G PP HF PG11	3240990	594	WP-GT PP HF M40	3241015	595
WMTB HF (55X25)R BU	0804981	232	WP-FS HF IP68 PG7	3241180	607	WP-G PP HF PG16	3240991	594	WP-GT PP HF PG11	3241004	595
WMTB HF (55X25)R DBU	0802993	232	WP-FS HF IP68 PG9	3241181	607	WP-G PP HF PG21	3240992	594	WP-GT PP HF PG16	3241005	595
WMTB HF (55X25)R GN	0804982	232	WP-FS IP68 M10	3241159	606	WP-G PP HF PG29	3240993	594	WP-GT PP HF PG21	3241006	595
WMTB HF (55X25)R RD	0803316	232	WP-FS IP68 M12	3241160	606	WP-G PP HF PG36	3240994	594	WP-GT PP HF PG29	3241007	595
WMTB HF (55X25)R YE	0830412	232	WP-FS IP68 M16	3241161	606	WP-G PP HF PG7	3240988	594	WP-GT PP HF PG36	3241008	595
WMTB-AL (29X8)	0830805	192	WP-FS IP68 M20	3241162	606	WP-G PP HF PG9	3240989	594	WP-GT PP HF PG7	3241002	595
WMTB-AL (40X15)	0830524	192	WP-FS IP68 M25	3241163	606	WP-GA HF IP66 M10 BK	3240923	589	WP-GT PP HF PG9	3241003	595
WMTB-AL (60X15)	0830525	192	WP-FS IP68 M32	3241164	606	WP-GA HF IP66 M12 BK	3240924	589	WP-OR M10	3241187	607
WMTB-AL (D30)	0830804	193	WP-FS IP68 M40	3241165	606	WP-GA HF IP66 M16 BK	3240925	589	WP-OR M12	3241188	607
WP-BASE A M16	3241083	603	WP-FS IP68 PG11	3241168	606	WP-GA HF IP66 M20 BK	3240926	589	WP-OR M16	3241189	607
WP-BASE A M20	3241084	603	WP-FS IP68 PG16	3241169	606	WP-GA HF IP66 M25 BK	3240927	589	WP-OR M20	3241190	607
WP-BASE A M25	3241085	603	WP-FS IP68 PG21	3241170	606	WP-GA HF IP66 M32 BK	3240928	589	WP-OR M25	3241191	607
WP-BASE A M32	3241086	603	WP-FS IP68 PG29	3241171	606	WP-GA HF IP66 M40 BK	3240929	589	WP-OR M32	3241192	607
WP-BASE A M40	3241087	603	WP-FS IP68 PG36	3241172	606	WP-GA HF IP66 PG11 BK	3240918	588	WP-OR M40	3241193	607
WP-BASE A PG16	3241079	603	WP-FS IP68 PG7	3241166	606	WP-GA HF IP66 PG16 BK	3240919	588	WP-OR PG11	3241196	607
WP-BASE A PG21	3241080	603	WP-FS IP68 PG9	3241167	606	WP-GA HF IP66 PG21 BK	3240920	588	WP-OR PG16	3241197	607
WP-BASE A PG29	3241081	603	WP-G BRASS IP40 M10	3241044	599	WP-GA HF IP66 PG29 BK	3240921	588	WP-OR PG21	3241198	607
WP-BASE A PG36	3241082	603	WP-G BRASS IP40 M12	3241045	599	WP-GA HF IP66 PG36 BK	3240922	588	WP-OR PG29	3241199	607
WP-BASE C PA HF 10,0 BK	3240958	602	WP-G BRASS IP40 M16	3241046	599	WP-GA HF IP66 PG7 BK	3240916	588	WP-OR PG36	3241200	607
WP-BASE C PA HF 13,0 BK	3240959	602	WP-G BRASS IP40 M20	3241047	599	WP-GA HF IP66 PG9 BK	3240917	588	WP-PA HF 15,8 BK	3241194	607
WP-BASE C PA HF 15,8 BK	3240960	602	WP-G BRASS IP40 M25	3241048	599	WP-GA HF IP69K M10 BK	3240909	589	WP-OR PG9	3241195	607
WP-BASE C PA HF 21,2 BK	3240961	602	WP-G BRASS IP40 M32	3241049	599	WP-GA HF IP69K M12 BK	3240910	589	WP-PA HF 10,0 BK	3240680	585
WP-BASE C PA HF 28,2 BK	3240962	602	WP-G BRASS IP40 M40	3241050	599	WP-GA HF IP69K M16 BK	3240911	589	WP-PA HF 13,0 BK	3240681	585
WP-BASE C PA HF 34,5 BK	3240963	602	WP-G BRASS IP40 PG11	3241039	598	WP-GA HF IP69K PG11 BK	3240912	589	WP-PA HF 15,8 BK	3240682	585
WP-BASE C PA HF 42,5 BK	3240964	602	WP-G BRASS IP40 PG16	3241040	598	WP-GA HF IP69K M25 BK	3240913	589	WP-PA HF 21,2 BK	3240683	585
WP-BASE HF 13	3240966	603	WP-G BRASS IP40 PG21	3241041	598	WP-GA HF IP69K M32 BK	3240914	589	WP-PA HF 28,5 BK	3240684	585
WP-BASE HF 14	3240967	603	WP-G BRASS IP40 PG29	3241042	598	WP-GA HF IP69K M40 BK	3240915	589	WP-PA HF 34,5 BK	3241088	585
WP-BASE HF 15,8	3240968	603	WP-G BRASS IP40 PG36	3241043	598	WP-GA HF IP69K PG11 BK	3240904	589	WP-PA HF 42,5 BK	3241089	585
WP-BASE HF 17	3240969	603	WP-G BRASS IP40 PG7	3241037 </							

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
WP-PA HF-HB 34,5 BK	3240843	585	WST 1,5	3030958	155	WT-HT HF 2,5X98 BK	3240781	617	ZB 22,LGS:L1-N,PE	0811875	125
WP-PA HF-HB 42,5 BK	3240844	585	WST 10/35	3030006	155	WT-HT HF 3,6X140	3240782	617	ZB 22:UNBEDRUCKT	0811862	125
WP-PA HF-SL 21,2 BK	3240845	584	WST 2,5	3030941	155	WT-HT HF 3,6X140 BK	3240783	617	ZB 25:UNPRINTED	0802751	125
WP-PA HF-SL 28,5 BK	3240846	584	WST 4	3030954	155	WT-HT HF 3,6X200	3240784	617	ZB 3,5,LGS:FORTL.ZAHLEN	0801404	116
WP-PA HF-SL 34,5 BK	3240847	584	WST 6	3030967	155	WT-HT HF 3,6X200 BK	3240785	617	ZB 3,5,QR:FORTL.ZAHLEN	0801405	116
WP-PA HF-SL 42,5 BK	3240848	584	WT-BASE HF 5	3240702	622	WT-HT HF 4,5X200	3240786	617	ZB 3,5:UNBEDRUCKT	0829414	116
WP-SC BRASS 10	3241065	597	WT-BASE HF 5 BK	3240703	622	WT-HT HF 4,5X200 BK	3240787	617	ZB 4 :UNBEDRUCKT	0805001	117
WP-SC BRASS 14	3241066	597	WT-BASE HF 9	3240704	622	WT-HT HF 4,5X290	3240788	617	ZB 4,LGS:FORTL.ZAHLEN	0805739	117
WP-SC BRASS 17	3241067	597	WT-BASE HF 9 BK	3240705	622	WT-HT HF 4,5X290 BK	3240789	617	ZB 4,QR:FORTL.ZAHLEN	0805807	117
WP-SC BRASS 21	3241068	597	WT-BASE LS HF 4	3240706	622	WT-HT HF 7,8X365	3240792	617	ZB 4/WH-100:UNBEDRUCKT	0805810	117
WP-SC BRASS 27	3241069	597	WT-BASE LS HF 4 BK	3240707	622	WT-HT HF 7,8X365 BK	3240793	617	ZB 5 :UNBEDRUCKT	1050004	117
WP-SC BRASS 36	3241070	597	WT-BASE LS HF 6	3240708	622	WT-ID HF 2,5X98 BU	3240794	619	ZB 5,08,LGS:FORTL.ZAHLEN	0809803	117
WP-SC BRASS 45	3241071	597	WT-BASE LS HF 6 BK	3240709	622	WT-ID HF 3,5X140 BU	3240795	619	ZB 5,08,LGS:L1-N,PE	0809832	117
WP-SC BRASS WP PVC 10	3241072	600	WT-BASE P HF 9,5 BK	3240710	623	WT-ID HF 3,5X200 BU	3240796	619	ZB 5,08,LGS:U-N	0809845	117
WP-SC BRASS WP PVC 14	3241073	600	WT-BASE R HF 8	3240711	623	WT-ID HF 4,5X200 BU	3240797	619	ZB 5,08,QR:FORTL.ZAHLEN	0809858	117
WP-SC BRASS WP PVC 17	3241074	600	WT-D HF 7,5X200	3240712	618	WT-ID HF 4,5X290 BU	3240798	619	ZB 5,08:UNBEDRUCKT	0809793	117
WP-SC BRASS WP PVC 21	3241075	600	WT-D HF 7,5X200 BK	3240713	618	WT-ID HF 7,5X365 BU	3240800	619	ZB 5,8:UNBEDRUCKT	2715209	118
WP-SC BRASS WP PVC 27	3241076	600	WT-D HF 7,5X250	3240714	618	WT-R HF 3,6X150	3240801	619	ZB 5,8,LGS:FORTL.ZAHLEN	1050017	117
WP-SC BRASS WP PVC 36	3241077	600	WT-D HF 7,5X250 BK	3240715	618	WT-R HF 4,8X200	3240803	619	ZB 5,LGS:GERADE ZAHLEN	0800035	117
WP-SC BRASS WP PVC 45	3241078	600	WT-D HF 7,5X350	3240716	618	WT-STEEL S 4,6X1067	3240805	620	ZB 5,LGS:GLEICHE ZAHLEN	1050033	117
WP-SC HF 10	3241016	593	WT-D HF 7,5X350 BK	3240717	618	WT-STEEL S 4,6X150	3240807	620	ZB 5,LGS:GROSSBUCHST.	1050059	117
WP-SC HF 14	3241017	593	WT-E HF 3,6X150	3240718	618	WT-STEEL S 4,6X150	3240808	620	ZB 5,08,LGS:U-N	1050415	117
WP-SC HF 17	3241018	593	WT-E HF 4,8X200	3240720	618	WT-STEEL S 4,6X259	3240809	620	ZB 5,LGS:SYMBOLE	1050091	117
WP-SC HF 21	3241019	593	WT-E HF 7,8X200	3240722	618	WT-STEEL S 4,6X360	3240810	620	ZB 5,LGS:UNGERADE ZAHLEN	0800019	117
WP-SC HF 27	3241020	593	WT-E HF 7,8X300	3240724	618	WT-STEEL S 4,6X520	3240811	620	ZB 5,QR:FORTL.ZAHLEN	1050020	117
WP-SC HF 36	3241021	593	WT-E HF 7,8X380	3240726	618	WT-STEEL S 4,6X679	3240812	620	ZB 5,QR:GERADE ZAHLEN	1052811	117
WP-SC HF 45	3241022	593	WT-HF 12,6X1000	3240728	614	WT-STEEL S 4,6X838	3240723	620	ZB 5,QR:UNGERADE ZAHLEN	1052824	117
WP-SC PA HF 10,0 BK	3240981	585	WT-HF 12,6X1000 BK	3240729	615	WT-STEEL S 7,9X1067	3240813	620	ZB 5,WH-100:UNBEDRUCKT	5060906	117
WP-SC PA HF 13,0 BK	3240982	585	WT-HF 12,6X850	3240730	614	WT-STEEL S 7,9X259	3240814	620	ZB 6,6,LGS:FORTL.ZAHLEN	1052345	119
WP-SC PA HF 15,8 BK	3240983	585	WT-HF 12,6X850 BK	3240731	615	WT-STEEL S 7,9X360	3240815	620	ZB 6,6:UNBEDRUCKT	1052332	119
WP-SC PA HF 21,2 BK	3240984	585	WT-HF 2,5X98	3240732	614	WT-STEEL S 7,9X520	3240816	620	ZB 6,LGS:FORTL.ZAHLEN	1051016	118
WP-SC PA HF 28,5 BK	3240985	585	WT-HF 2,5X98 BK	3240733	615	WT-STEEL S 7,9X679	3240817	620	ZB 6,LGS:GERADE ZAHLEN	1052808	118
WP-SC PA HF 34,5 BK	3240986	585	WT-HF 2,5X98 BK-L	3240734	615	WT-STEEL S 7,9X838	3240725	620	ZB 6,LGS:GLEICHE ZAHLEN	1051032	118
WP-SC PA HF 42,5 BK	3240987	585	WT-HF 2,5X98-L	3240735	614	WT-STEEL SH 4,6X1067	3240818	621	ZB 6,LGS:GROSSBUCHSTABEN	1051058	118
WP-SPIRAL PU C HF 10	3240856	593	WT-HF 2,6X160	3240736	614	WT-STEEL SH 4,6X150	3240820	621	ZB 6,LGS:L1-N,PE	1051414	118
WP-SPIRAL PU C HF 14	3240857	593	WT-HF 2,6X160 BK	3240737	615	WT-STEEL SH 4,6X201	3240821	621	ZB 6,LGS:SYMBOLE	1051090	118
WP-SPIRAL PU C HF 17	3240858	593	WT-HF 2,6X160 BK-L	3240738	615	WT-STEEL SH 4,6X259	3240822	621	ZB 6,LGS:U-N	1051430	118
WP-SPIRAL PU C HF 21	3240859	593	WT-HF 2,6X160-L	3240739	614	WT-STEEL SH 4,6X360	3240823	621	ZB 6,LGS:UNGERADE ZAHLEN	1052798	118
WP-SPIRAL PU C HF 27	3240860	593	WT-HF 2,6X200	3240740	614	WT-STEEL SH 4,6X520	3240824	621	ZB 6,QR:FORTL.ZAHLEN	1051029	118
WP-SPIRAL PU C HF 36	3240861	593	WT-HF 2,6X200 BK	3240741	615	WT-STEEL SH 4,6X679	3240825	621	ZB 6,QR:GERADE ZAHLEN	1052785	118
WP-SPIRAL PU C HF 45	3240862	593	WT-HF 2,6X200 BK-L	3240742	615	WT-STEEL SH 4,6X838	3240727	621	ZB 6,QR:UNGERADE ZAHLEN	1052772	118
WP-SPIRAL PVC C 10	3240849	592	WT-HF 2,6X200-L	3240743	614	WT-STEEL SH 7,9X1067	3240826	621	ZB 6/WH-100:UNBEDRUCKT	5060935	118
WP-SPIRAL PVC C 14	3240850	592	WT-HF 3,6X140	3240744	614	WT-STEEL SH 7,9X259	3240827	621	ZB 6:UNBEDRUCKT	1051003	118
WP-SPIRAL PVC C 17	3240851	592	WT-HF 3,6X140 BK	3240745	615	WT-STEEL SH 7,9X360	3240828	621	ZB 7,5:UNBEDRUCKT	0803948	119
WP-SPIRAL PVC C 21	3240852	592	WT-HF 3,6X140 BK-L	3240746	615	WT-STEEL SH 7,9X520	3240829	621	ZB 7,62,LGS:FORTL.ZAHLEN	1054233	119
WP-SPIRAL PVC C 27	3240853	592	WT-HF 3,6X140-L	3240747	614	WT-STEEL SH 7,9X679	3240830	621	ZB 7,62/WH-100:UNBEDRUCKT	5060922	119
WP-SPIRAL PVC C 36	3240854	592	WT-HF 3,6X200	3240748	614	WT-STEEL SH 7,9X838	3240766	621	ZB 7,62:UNBEDRUCKT	1050400	119
WP-SPIRAL PVC C 45	3240855	592	WT-HF 3,6X200 BK	3240749	615	WT-UV HF 2,5X98 BK	3240831	616	ZB 8,LGS:FORTL.ZAHLEN	1052015	120
WP-STEEL PVC C 10	3240867	600	WT-HF 3,6X200 BK-L	3240750	615	WT-UV HF 3,6X140 BK	3240832	616	ZB 8,LGS:L1-N,PE	1052413	120
WP-STEEL PVC C 14	3240868	600	WT-HF 3,6X200-L	3240751	614	WT-UV HF 3,6X200 BK	3240833	616	ZB 8,LGS:SYMBOLE	1052099	120
WP-STEEL PVC C 17	3240869	600	WT-HF 3,6X290	3240752	614	WT-UV HF 4,5X200 BK	3240834	616	ZB 8,QR:FORTL.ZAHLEN	1052028	120
WP-STEEL PVC C 21	3240870	600	WT-HF 3,6X290 BK	3240753	615	WT-UV HF 4,5X290 BK	3240835	616	ZB 8/WH-100:UNBEDRUCKT	5060896	120
WP-STEEL PVC C 27	3240871	600	WT-HF 3,6X290 BK-L	3240754	615	WT-UV HF 7,8X365 BK	3240837	616	ZB 8:UNBEDRUCKT	1052002	120
WP-STEEL PVC C 36	3240872	600	WT-HF 3,6X290-L	3240755	614				ZB 9:UNBEDRUCKT	0829127	120
WP-STEEL PVC C 45	3240873	600	WT-HF 4,5X160	3240756	614				ZB10,LGS:FORTL.ZAHLEN	1053014	121
WP-STEEL S 10	3240886	597	WT-HF 4,5X160 BK	3240757	615				ZB10,LGS:L1-N,PE	1053412	121
WP-STEEL S 14	3240687	597	WT-HF 4,5X160 BK-L	3240758	615	X					
WP-STEEL S 17	3240686	597	WT-HF 4,5X160-L	3240759	614	X-PEN 0,35	0811228	54	ZB10,LGS:SYMBOLE	1053098	121
WP-STEEL S 21	3240688	597	WT-HF 4,5X200	3240760	614				ZB10,LGS:U-N	1053438	121
WP-STEEL S 27	3240684	597	WT-HF 4,5X200 BK	3240761	615	Z			ZB10,QR:FORTL.ZAHLEN	1053027	121
WP-STEEL S 36	3240689	597	WT-HF 4,5X200 BK-L	3240762	615				ZB10/WH-100:UNBEDRUCKT	5060883	121
WP-STEEL S 45	3240690	597	WT-HF 4,5X200-L	3240763	614	ZAP 25	1203110	508	ZBF 12/WH-100:UNBEDRUCKT	0823672	129
WP-STEEL ZC 10	3240697	596	WT-HF 4,5X290	3240764	614	ZAP 25 T	1203123	509	ZBF 12:UNBEDRUCKT	0809735	129
WP-STEEL ZC 14	3240685	596	WT-HF 4,5X290 BK	3240765	615	ZAP 100	1203259	509	ZBF 13:UNBEDRUCKT	0829133	130
WP-STEEL ZC 17	3240698	596	WT-HF 4,5X360	3240768	614	ZAP 100 T	1203262	509	ZBF 15:UNBEDRUCKT	0811202	130
WP-STEEL ZC 21	3240699	596	WT-HF 4,5X360 BK	3240769	615						
WP-STEEL ZC 27	3240666	596	WT-HF 4,5X430	3240770	614	ZAP 40	1212630	508	ZBF 16:UNPRINTED	0827464	131
WP-STEEL ZC 36	3240700	596	WT-HF 4,5X430 BK	3240771	615	ZB 10:UNBEDRUCKT	1053001	121	ZBF 17:UNBEDRUCKT	0815620	131
WP-STEEL ZC 45	3240701	596	WT-HF 7,8X300	3240772	614	ZB 12,LGS:L1-N,PE	0812146	121	ZBF 19,7:UNBEDRUCKT	0810627	131
WS PT 10	1029030	155	WT-HF 7,8X300 BK	3240773	615	ZB 12:UNPRINTED	0812120	121	ZBF 3,5,LGS:FORTL.ZAHLEN	0801406	126
WS PT 16	1029033	155	WT-HF 7,8X365	3240774	614	ZB 13:UNBEDRUCKT	0829131	121	ZBF 3,5,QR:FORTL.ZAHLEN	0801407	126
WS PT 2,5	1029026	155	WT-HF 7,8X365 BK	3240775	615	ZB 15:UNBEDRUCKT	0811998	122	ZB 3,5,LGS:U-N	0829392	126
WS PT 4	1029563	155	WT-HF 7,8X540	3240719	614	ZB 15,LGS:L1-N,PE	0811972	122	ZBF 4,LGS:FORTL.ZAHLEN	0808626	127
WS PT 6	1029029	155	WT-HF 7,8X540 BK	3240721	615	ZB 16,3:UNPRINTED	0820222	123	ZBF 4,LGS:GERADE ZAHLEN	0810818	127
WS UT 10	3047361	155	WT-HF 9X780	3240778	614	ZB 16,LGS:L1-N,PE	0827462	123	ZBF 4,QR:FORTL.ZAHLEN	0808820	127
WS UT 16	3047374	155	WT-HF 9X780 BK	3240779	615	ZB 16:UNPRINTED	0827461	123	ZBF 4/WH-100:UNBEDRUCKT	0808613	127
WS UT 2,5	3047923	155	WT-HP HF 3,6X140	0830982	616	ZB 17:UNBEDRUCKT	0829391	123	ZBF 4:UNBEDRUCKT	0808587	127
WS UT 35	3047387	155	WT-HP HF 4,5X290	0830984	616				ZBF 5,LGS:FORTL.ZAHLEN	0808671	127
WS UT 4	3047332	155	WT-HP HF 4,8X200	0830983	616	ZB 18,LGS:L1-N,PE	0811846	124	ZBF 5,LGS:GERADE ZAHLEN	0810821	127
WS UT 6	3047345	155	WT-HT HF 2,5X98	3240780	617	ZB 20,3:UNPRINTED	0820248	124	ZBF 5,LGS:L1-N,PE	0809528	127
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