

# K-8E-M23MK/10,0-H00/OE-C5-S - Cable plug in molded plastic



1622243

<https://www.phoenixcontact.com/in/products/1622243>

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Cable plug in molded plastic, series: KSH, M23-Pin, angled, rotatable, -120° left/120° right, number of positions: 4+4+4+PE, type of locking: SPEEDCON, cable length: 10 m, shielded: yes, color of outer sheath: orange RAL 2003, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244561

## Your advantages

- Transmission of signals, data, and power in just a single connector
- CAT5 data interface for up to 100 Mbps
- Customer-specific assemblies and cable lengths can be supplied
- Simple and safe: 100% electrically tested and assembled ready for use
- Designs with preassembled cables on one or both sides
- Easy connection: angled design with configurable cable outlet direction

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1622243                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 2 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | ABR                            |
| Product key                          | ABRDGC                         |
| Catalog page                         | Page 227 (C-2-2019)            |
| GTIN                                 | 4055626069999                  |
| Weight per piece (including packing) | 3,884.042 g                    |
| Weight per piece (excluding packing) | 3,884.042 g                    |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

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## Technical data

### Notes

|                    |                         |
|--------------------|-------------------------|
| Notes on operation | Observe derating curve. |
|--------------------|-------------------------|

### Safety note

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety note | <p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> <ul style="list-style-type: none"><li>• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li><li>• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.</li><li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li><li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li><li>• Assembled products may not be manipulated or improperly opened.</li><li>• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li><li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li><li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li><li>• Ensure that the protective or functional ground has been properly connected.</li><li>• VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector</li><li>• Only use tools recommended by Phoenix Contact</li><li>• The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li><li>• Operate the connector only when it is fully plugged in and interlocked.</li><li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li><li>• Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li><li>• The connector warms up in normal operation. Depending on the</li></ul> |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

## Product properties

Product type

Signal and power cable

## Connector

### Connector specifications

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| Type                        | angled, rotatable, -120° left/120° right                 |
| Housing material            | PUR                                                      |
| Thread type                 | M23                                                      |
| Type of locking             | SPEEDCON                                                 |
| Degree of protection        | IP67, when in locked state<br>IP68, when in locked state |
| No. of pos.                 | 4+4+4+PE                                                 |
| Direction of rotation       | Standard                                                 |
| Contact switching type      | Pin                                                      |
| Insertion/withdrawal cycles | 100                                                      |
| Max. current                | 30 A                                                     |
| Voltage                     | 630 V AC                                                 |
| Overvoltage category        | III                                                      |
| Degree of pollution         | 3                                                        |
| Rated surge voltage         | 6 kV                                                     |

### Cable specifications

|                          |                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cable type               | HDSLC11Y-J                                                                                                                                                                       |
| Transmission speed       | CAT5                                                                                                                                                                             |
| Transmission speed       | 100 Mbps (Data interface)                                                                                                                                                        |
| Shielded                 | yes                                                                                                                                                                              |
| Cable structure          | (5x 2.5 + 2x (2x 0.5) + (4x 0.34)C) C                                                                                                                                            |
| External cable diameter  | 15.50 mm ±0.5 mm                                                                                                                                                                 |
| Outer sheath, material   | PUR                                                                                                                                                                              |
| Material wire insulation | TPE                                                                                                                                                                              |
| External sheath, color   | orange RAL 2003                                                                                                                                                                  |
| Single wire, color       | black 1, black 2, black 3, black 4, green/yellow Power wires + PE<br>brown, violet, black 5, green Signal wires<br>blue, yellow, white, orange Data wires                        |
| Nominal voltage, cable   | 1000 V (300 V signal)                                                                                                                                                            |
| Test voltage             | 4 kV (1.5 kV signal)                                                                                                                                                             |
| Rated current            | 26 A (Power, in accordance with DIN VDE 0298-4 Tab. 11/5, at 15°C)<br>8 A (Signal, according to DIN VDE 0298-4 tab. 11/5)<br>3.6 A (Data, according to DIN VDE 0298-4 tab. 11/5) |

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|                                                           |                                          |
|-----------------------------------------------------------|------------------------------------------|
| Smallest bending radius, fixed installation               | 73 mm                                    |
| Smallest bending radius, movable installation             | 148 mm                                   |
| Max. bending cycles                                       | 1000000                                  |
| Traversing path                                           | 6 m                                      |
| Acceleration                                              | 30 m/s <sup>2</sup>                      |
| Ambient temperature (operation) for fixed installation    | -40 °C ... 80 °C (fixed installation)    |
| Ambient temperature (operation) for flexible installation | -20 °C ... 80 °C (flexible installation) |
| UL AWM style                                              | 20234 / 10492 (80°C/1000 V)              |
| Special properties                                        | Flexible cable conduit capable           |
| Flame resistance                                          | IEC 60332-1-2                            |
| Halogen-free                                              | in accordance with EN 50267-2-1          |
| Resistance to oil                                         | EN 60811-2-1                             |

## Electrical properties

|                       |      |
|-----------------------|------|
| Nominal current $I_N$ | 26 A |
|-----------------------|------|

## Cable/line

|              |      |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

# K-8E-M23MK/10,0-H00/OE-C5-S - Cable plug in molded plastic

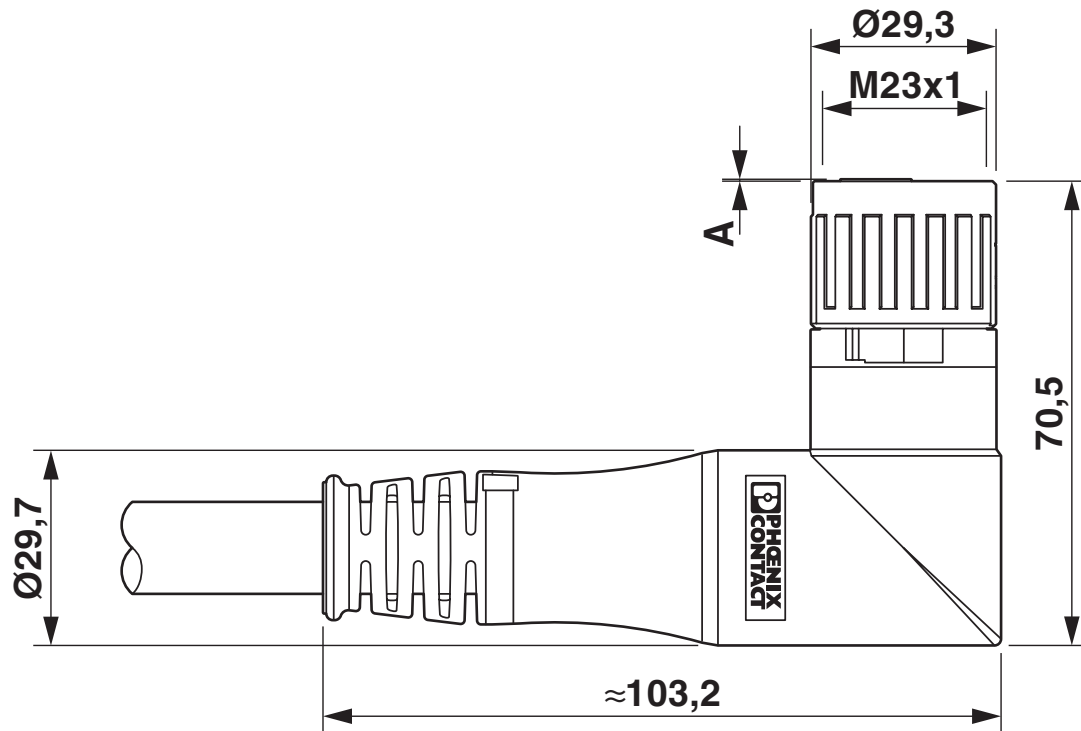


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## Drawings

Dimensional drawing



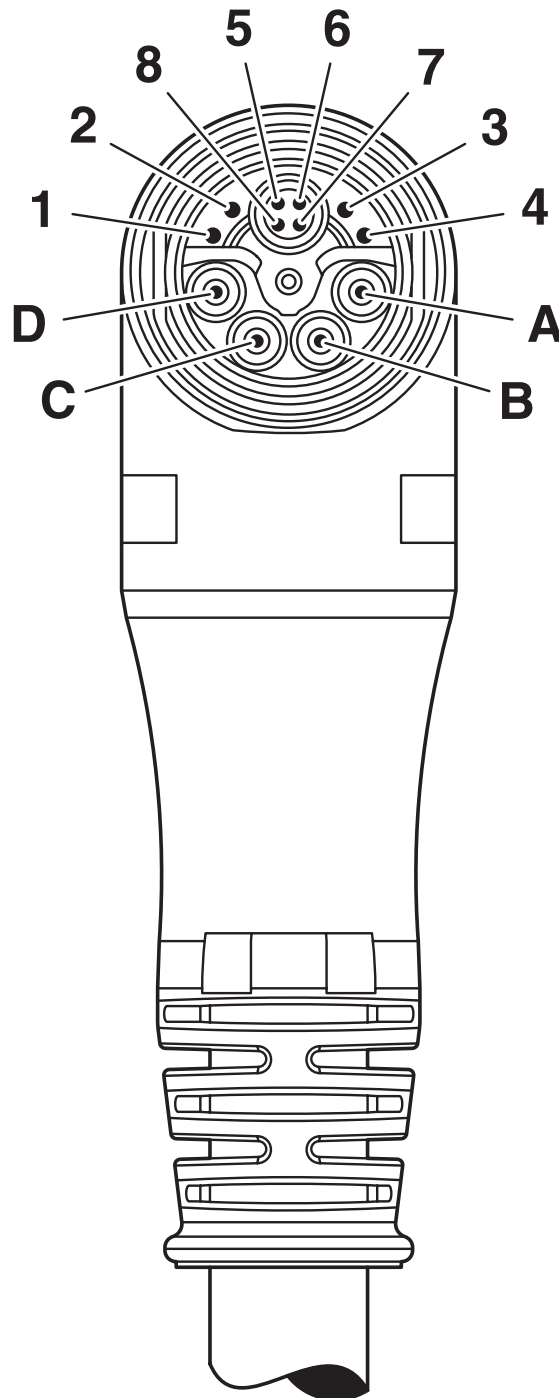
Pin version: dimension A = ~ 0.3 mm, socket version: dimension A = 0 mm

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Schematic diagram



Cable outlet direction

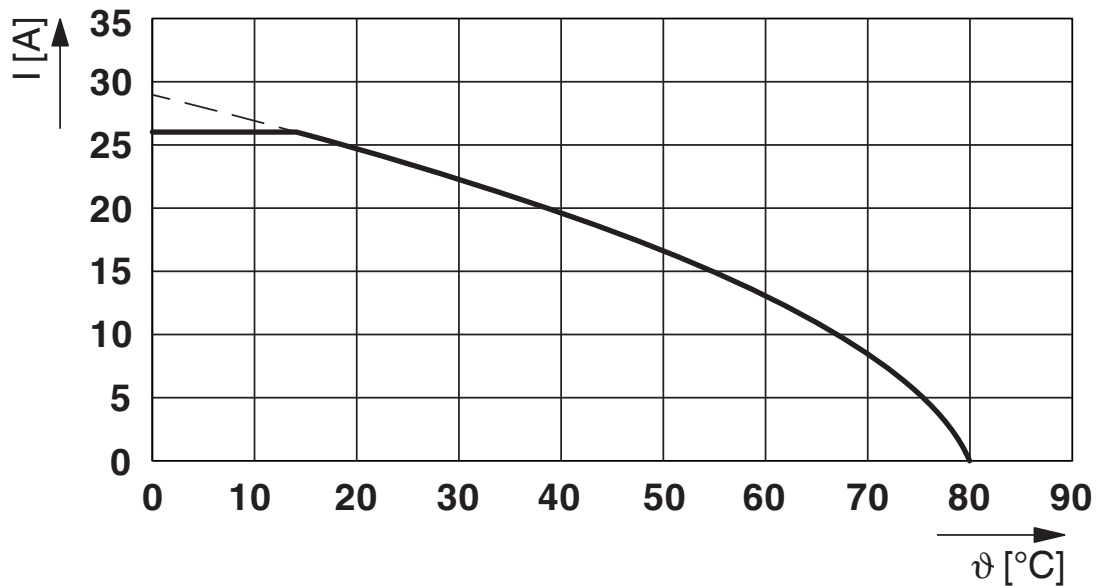
# K-8E-M23MK/10,0-H00/OE-C5-S - Cable plug in molded plastic



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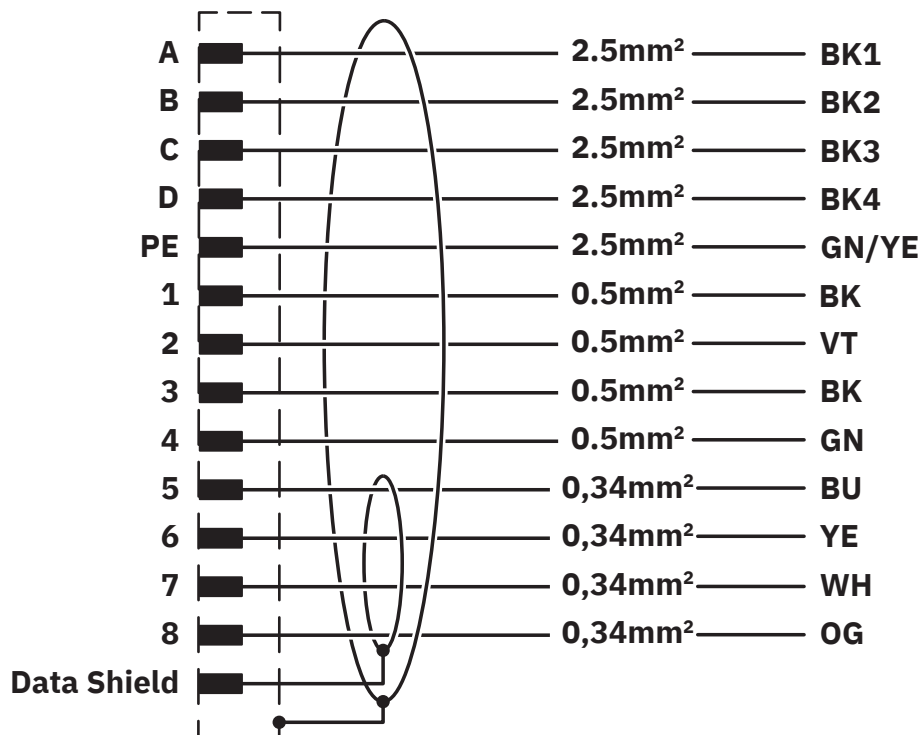
<https://www.phoenixcontact.com/in/products/1622243>

Diagram



3 x 26 A + 4 x 2 A + 4 x 1 A

Circuit diagram



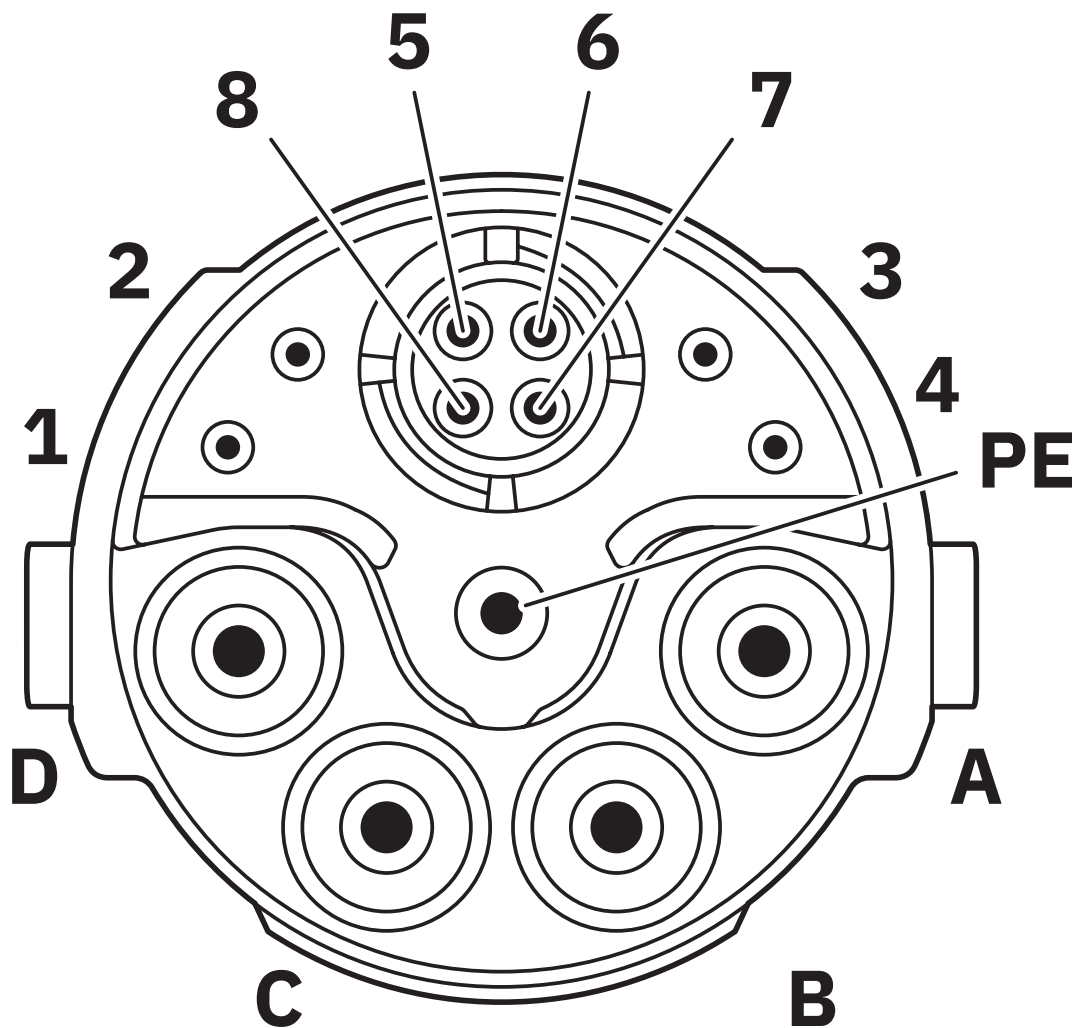
Contact assignment of M23 plugs/sockets

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Schematic diagram



Connector pin assignment



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1622243>



### EAC

Approval ID: B.00286/19



### UL Listed

Approval ID: E468743-20150929

|        | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------|-----------------------|-----------------------|-------------------|-----------------------------|
| Power  | 600 V                 | 16 A                  | -                 | -                           |
| Signal | 50 V                  | 4 A                   | -                 | -                           |
| Data   | 30 V                  | 1 A                   | -                 | -                           |



### cUL Listed

Approval ID: E468743-20150929

|        | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------|-----------------------|-----------------------|-------------------|-----------------------------|
| Power  | 600 V                 | 16 A                  | -                 | -                           |
| Signal | 50 V                  | 4 A                   | -                 | -                           |
| Data   | 30 V                  | 1 A                   | -                 | -                           |

### cULus Listed

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060311 |
| ECLASS-12.0 | 27060311 |
| ECLASS-13.0 | 27060311 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |            |
|-----------------------------------------|------------|
| Fulfills EU RoHS substance requirements | Yes        |
| Exemption                               | 6(b), 6(c) |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | a82a6597-c45b-42fb-9891-7580a490bd5f |

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## Accessories

### PABA WH/23 - Insert label

1013779

<https://www.phoenixcontact.com/in/products/1013779>



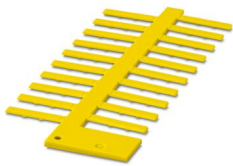
Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: slide-on, cable diameter range: 1.5 ... 35 mm, Number of individual labels: 20, text field height: 4 mm, text field width: 23 mm

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### PABA YE/23 - Insert label

1013782

<https://www.phoenixcontact.com/in/products/1013782>



Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: slide-on, cable diameter range: 1.5 ... 35 mm, Number of individual labels: 20, text field height: 4 mm, text field width: 23 mm

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## PATG 6/23 - Conductor marker carrier

0808037

<https://www.phoenixcontact.com/in/products/0808037>



Conductor marker carrier, transparent, unlabeled, mounting type: slide-on, cable diameter range: 14 ... 22 mm, text field height: 4 mm, text field width: 23 mm

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## SH-Z2300 - Metal protective cap

1622141

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Metal protective cap, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244542

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## SH-Z0077 - Metal protective cap

1627226

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Metal protective cap, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1245449

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