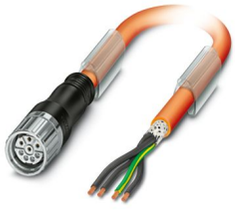
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K-7E - OE/010-D03/M23 F8 - Cable plug in molded plastic

1620405

https://www.phoenixcontact.com/in/products/1620405

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Cable plug in molded plastic, series: KSF, M23-Socket, Straight, plastic molded, number of positions: 4+3+PE, type of locking: Screw locking mechanism, cable length: 10 m, shielded: yes, color of outer sheath: orange RAL 2003

Your advantages

- Our standard: robust halogen-free PUR cable
- Simple and safe: 100% electrically tested and assembled ready for use
- Designs with preassembled cables on one or both sides
- High flexibility: customer-specific assemblies and cable lengths can be supplied

Commercial data

Item number	1620405
Packing unit	1 pc
Minimum order quantity	2 pc
Note	Made to order (non-returnable)
Sales key	ABR
Product key	ABRDEA
Catalog page	Page 222 (C-2-2019)
GTIN	4046356831376
Weight per piece (including packing)	3,467 g
Weight per piece (excluding packing)	3,075.493 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	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	• 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.
	• 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.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	• Assembled products may not be manipulated or improperly opened.
	• 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 phoenixcontact.com/products).
	• When using the product in direct connection with third-party manufacturers, the user is responsible.
	• For operating voltages > 50 V AC, conductive connector housings must be grounded
	• Ensure that the protective or functional ground has been properly connected.
	• 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
	• Only use tools recommended by Phoenix Contact
	• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	• Operate the connector only when it is fully plugged in and interlocked.
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	• Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting

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	warnings (e.g. DIN EN ISO 13732-1:2008-12).

Product properties

Product type	Signal and power cable

Connector

Connector specifications

Type	Straight, plastic molded
Thread type	M23
Type of locking	Screw locking mechanism
Degree of protection	IP67, when in locked state
No. of pos.	4+3+PE
Direction of rotation	Standard
Contact switching type	Socket
Insertion/withdrawal cycles	50
Contact resistance	< 0.3 mΩ
Max. current	30 A
Voltage	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV
Ambient temperature (operation)	-40 °C ... 105 °C

Cable specifications

Cable type	PSLC11Y-J
Shielded	yes
Cable structure	4 x 2.5 mm² + 2 x 2 x 1.0 mm² StC
External cable diameter	13.50 mm ±0.4 mm
Outer sheath, material	PUR
Material wire insulation	TPM
External sheath, color	orange RAL 2003
Nominal voltage, cable	1000 V
Test voltage	4 kV (2 kV signal)
Smallest bending radius, movable installation	135 mm
Max. bending cycles	10000000
Bending radius	135 mm
Traversing path	6 m
Acceleration	5 m/s²
Ambient temperature (operation) for fixed installation	-40 °C ... 80 °C
Ambient temperature (operation) for flexible installation	-20 °C ... 60 °C
Special properties	Flexible cable conduit capable
Flame resistance	IEC 332-1
Halogen-free	DIN VDE 0472

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Cable/line

Cable length	10 m

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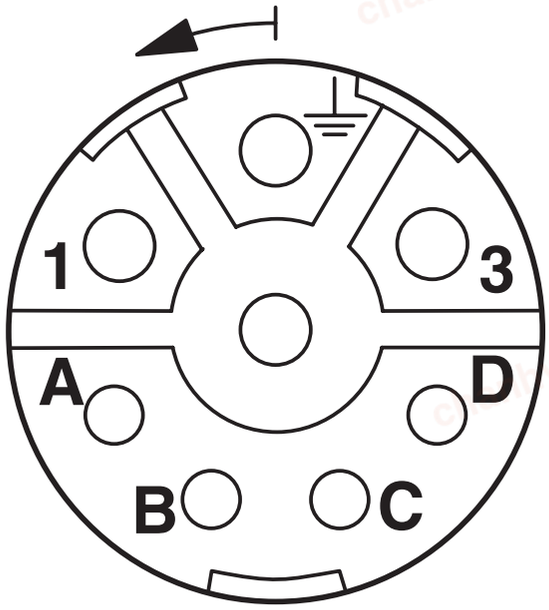
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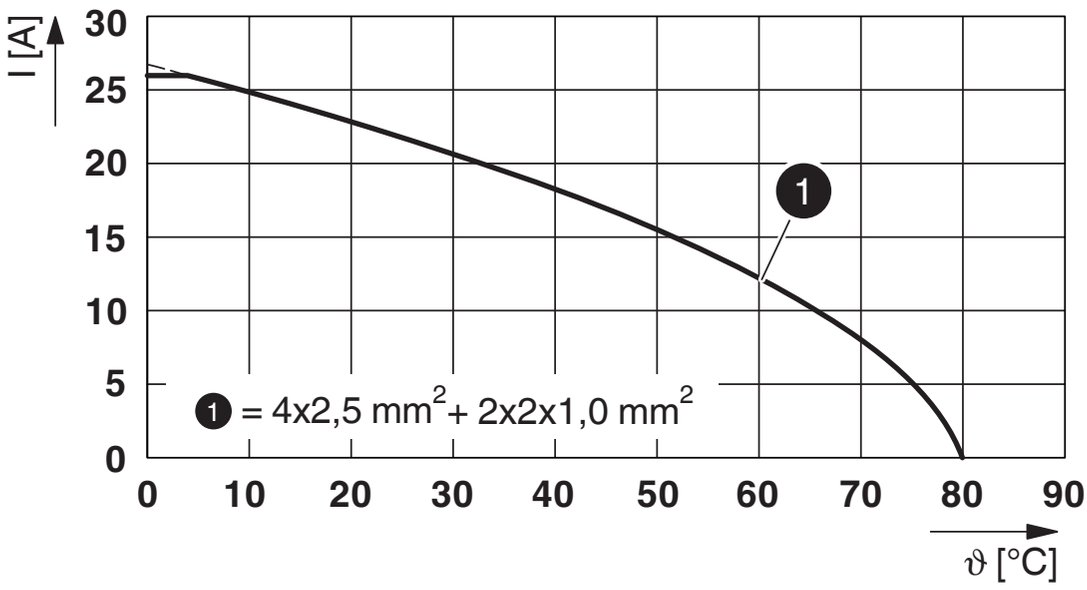
Drawings

Schematic diagram



Connector pin assignment

Diagram



I = current strength, T = ambient temperature

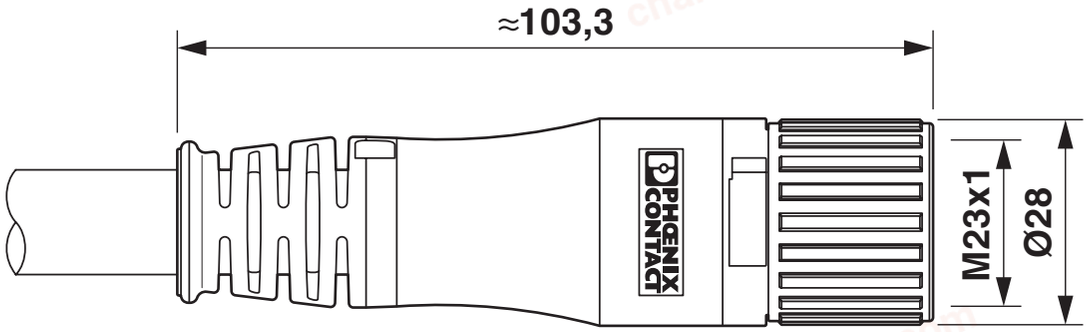
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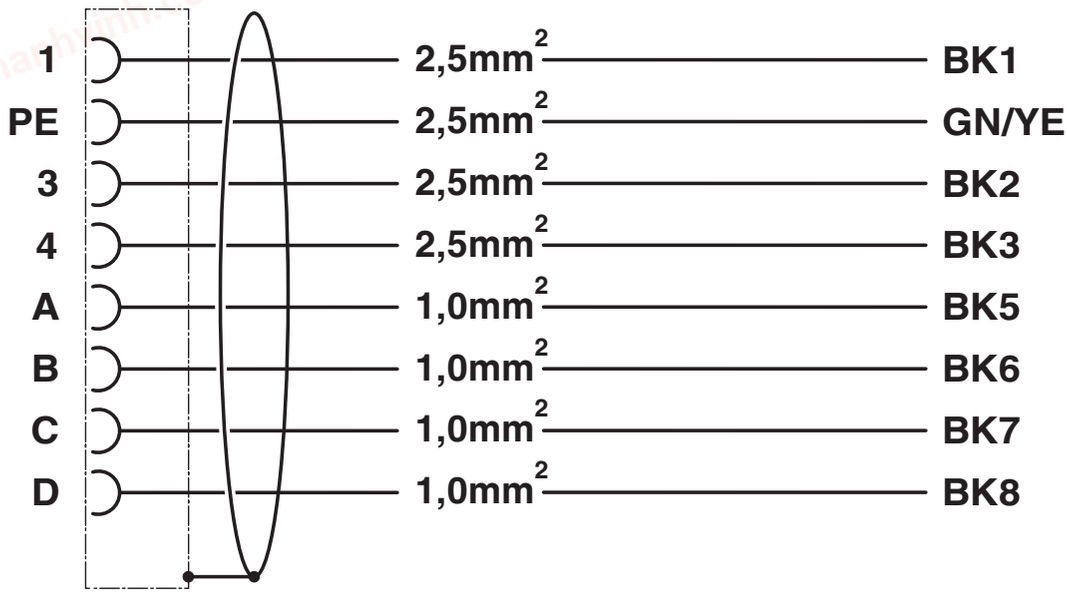
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Dimensional drawing



Dimensional drawing

Circuit diagram



Contact assignment of M23 plugs/sockets

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1620405

EAC
Approval ID: B.00286/19

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Classifications

ECLASS

ECLASS-11.0	27060106
ECLASS-12.0	27060106
ECLASS-13.0	27060106

ETIM

ETIM 9.0	EC003250

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	7a35b229-b722-4778-8be9-b18ccca561a9

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Accessories

PATG 5/23 - Conductor marker carrier

0808024

https://www.phoenixcontact.com/in/products/0808024



Conductor marker carrier, transparent, unlabeled, mounting type: slide-on, cable diameter range: 10 ... 14 mm, text field height: 4 mm, text field width: 23 mm

WIREFOX 10 - Stripping tool

1212150

https://www.phoenixcontact.com/in/products/1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm^2, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm^2 stranded/1.5 mm^2 solid, replaceable stripping blade

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PABA WH/15 - Insert label

1013151

https://www.phoenixcontact.com/in/products/1013151

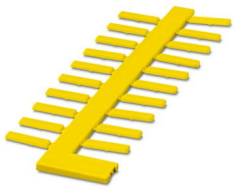


Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: slide-on, cable diameter range: 0.6 ... 50 mm, Number of individual labels: 20, text field height: 4 mm, text field width: 15 mm

PABA YE/15 - Insert label

1013698

https://www.phoenixcontact.com/in/products/1013698



Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: slide-on, cable diameter range: 0.6 ... 50 mm, Number of individual labels: 20, text field height: 4 mm, text field width: 15 mm

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PABA RD/15 - Insert label

1013944

https://www.phoenixcontact.com/in/products/1013944



Insert label, Strip, red, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: slide-on, cable diameter range: 0.6 ... 50 mm, Number of individual labels: 20, text field height: 4 mm, text field width: 15 mm

B-STIFT - Marker pen

1051993

https://www.phoenixcontact.com/in/products/1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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https://www.phoenixcontact.com/in/products/1620405

CUTFOX-S VDE - Diagonal cutter

1212207

https://www.phoenixcontact.com/in/products/1212207



Diagonal cutter for hard (piano wire) and soft wires, VDE 1000 V AC/1500 V DC tested

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