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K-8E-OE/2,0-H00/M23FK-C5-S - Cable plug in molded plastic

1622230

https://www.phoenixcontact.com/in/products/1622230

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Cable plug in molded plastic, series: KSH, M23-Socket, angled, rotatable, -120° left/120° right, number of positions: 4+4+4+PE, type of locking: SPEEDCON, cable length: 2 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.: 1244556

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	1622230
Packing unit	1 pc
Minimum order quantity	2 pc
Note	Made to order (non-returnable)
Sales key	ABR
Product key	ABRDGC
Catalog page	Page 226 (C-2-2019)
GTIN	4055626069944
Weight per piece (including packing)	835 g
Weight per piece (excluding packing)	835 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	angled, rotatable, -120° left/120° right
Housing material	PUR
Thread type	M23
Type of locking	SPEEDCON
Degree of protection	IP67, when in locked state
	IP68, when in locked state
No. of pos.	4+4+4+PE
Direction of rotation	Standard
Contact switching type	Socket
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
	brown, violet, black 5, green Signal wires
	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)
	8 A (Signal, according to DIN VDE 0298-4 tab. 11/5)
	3.6 A (Data, according to DIN VDE 0298-4 tab. 11/5)
Smallest bending radius, fixed installation	73 mm
Smallest bending radius, movable installation	148 mm

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Max. bending cycles	1000000
Traversing path	6 m
Acceleration	30 m/s²
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	2 m

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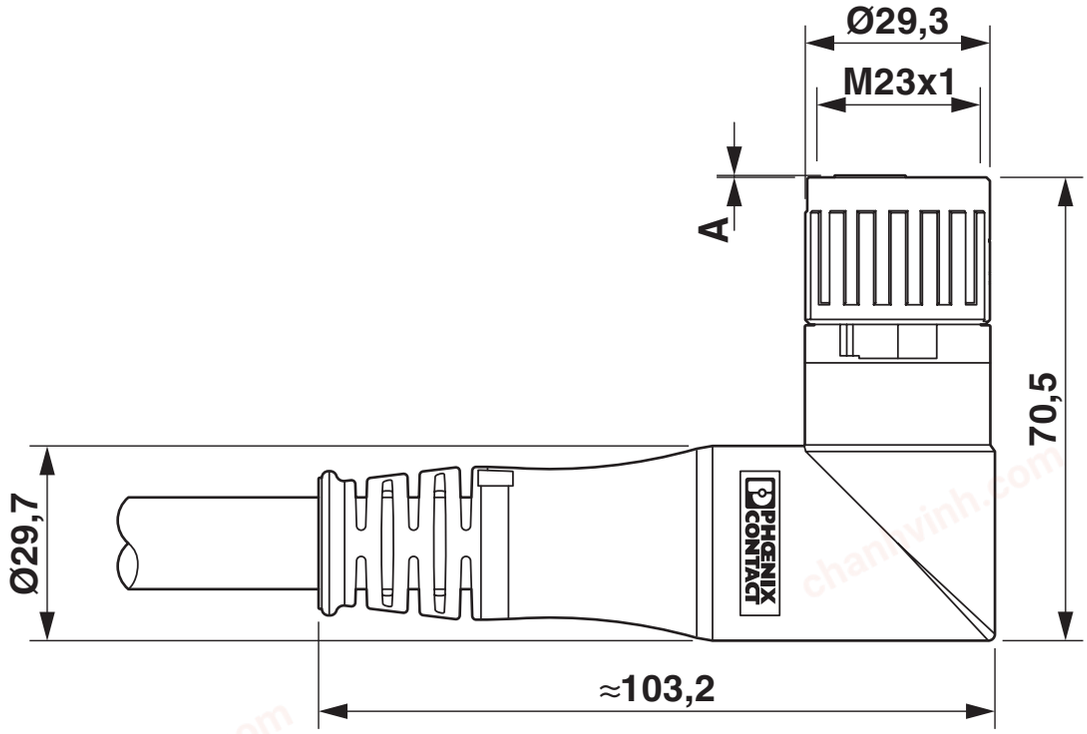
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Drawings

Dimensional drawing



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

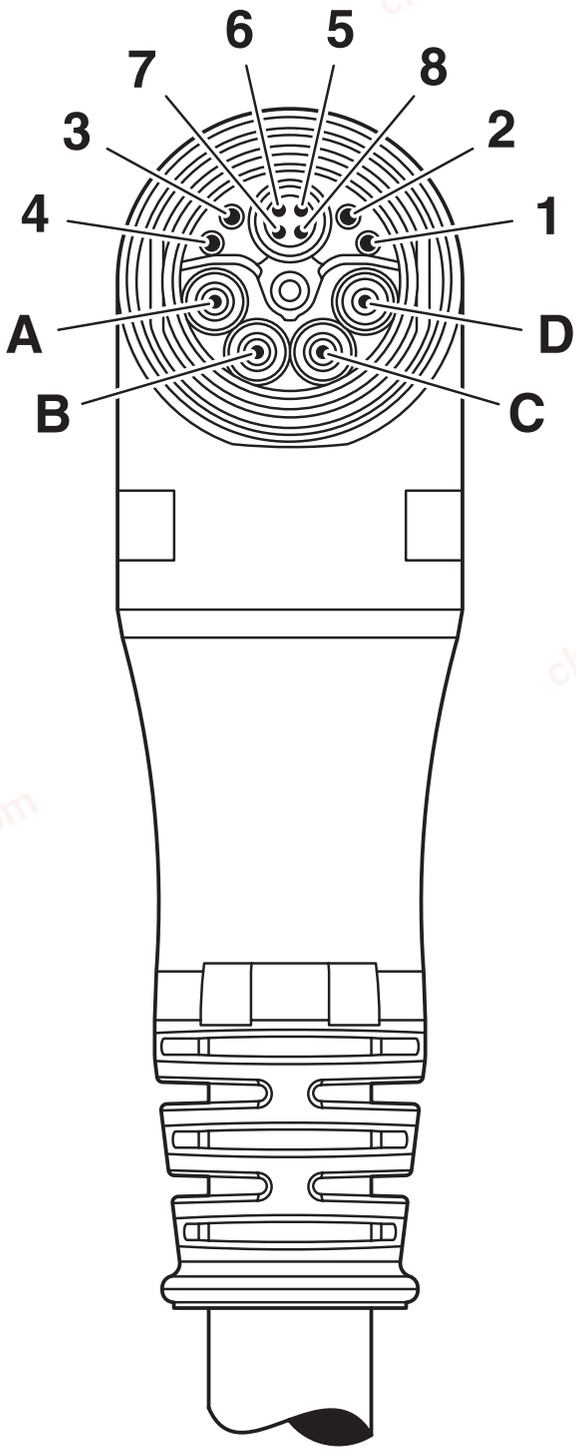
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Schematic diagram



Cable outlet direction

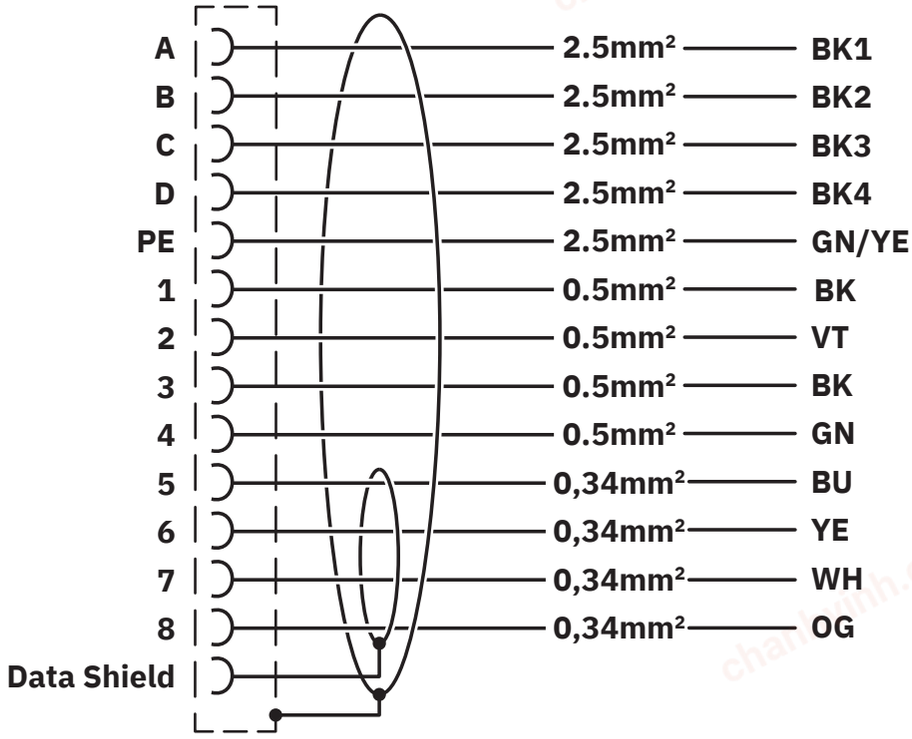
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Circuit diagram



Contact assignment of M23 plugs/sockets

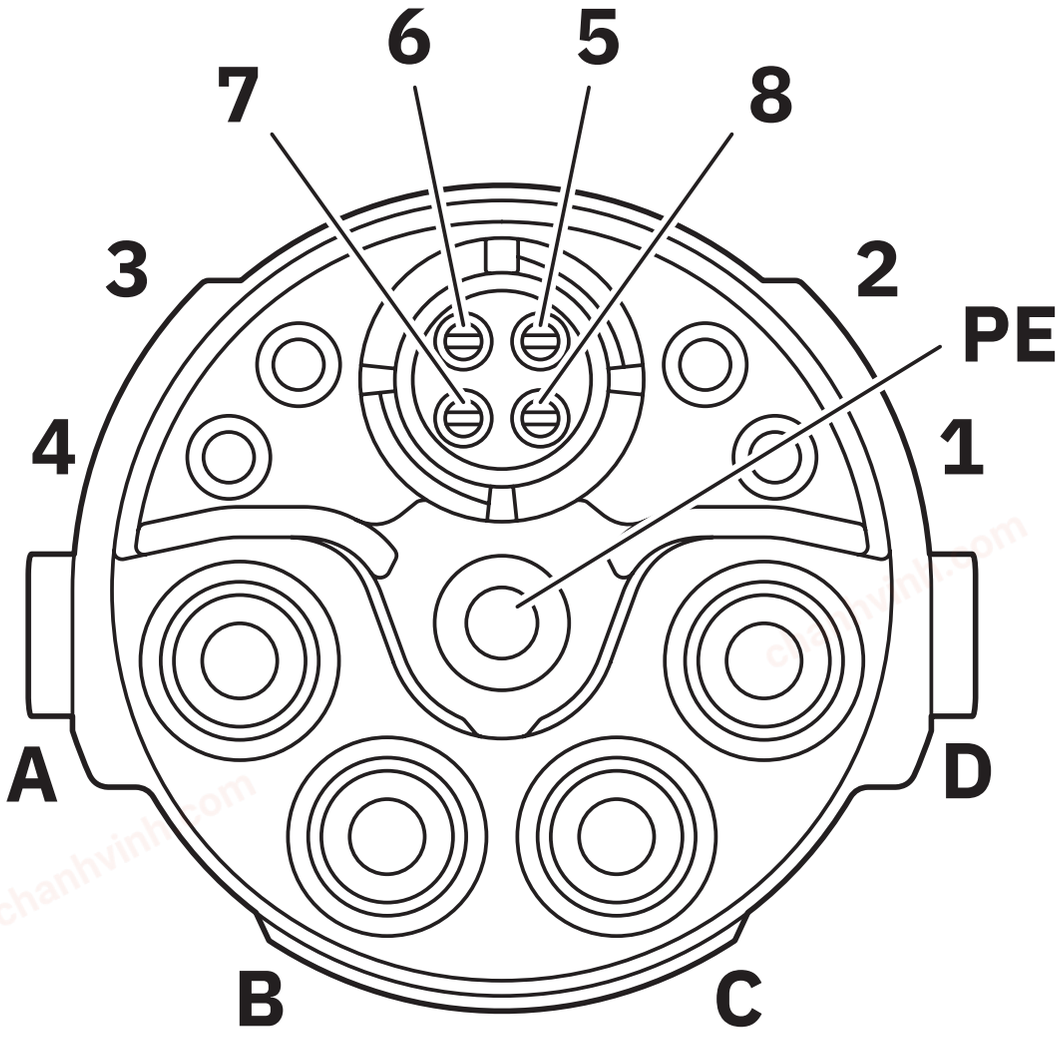
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Schematic diagram



Connector pin assignment

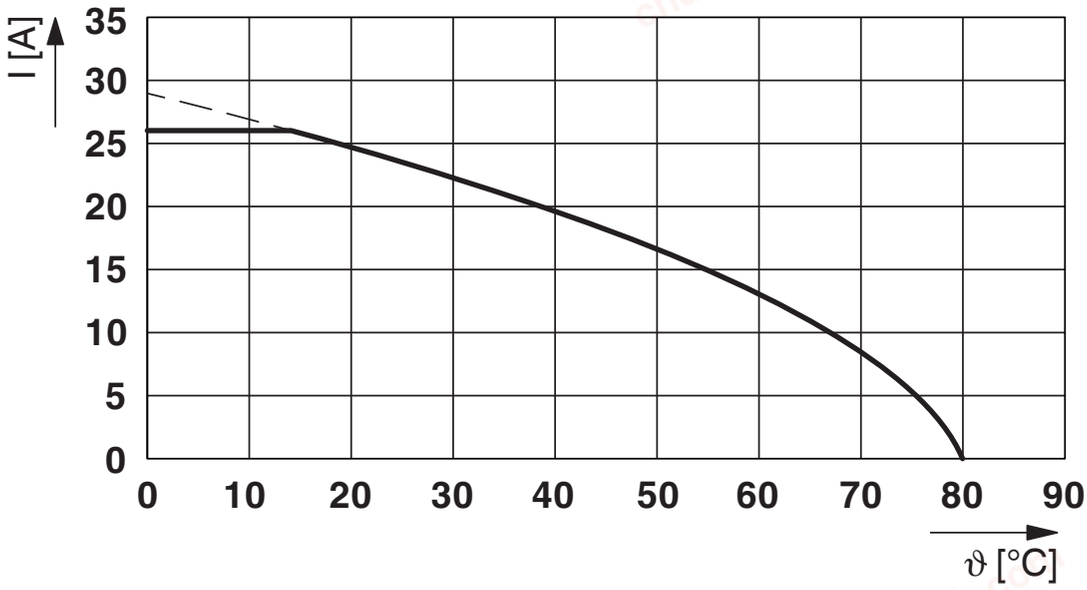
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Diagram



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

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1622230

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 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 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	6914fb19-7f0c-4d4e-9b42-11f73cef2fe6

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Accessories

PABA WH/23 - Insert label

1013779

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

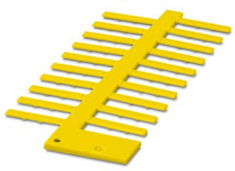


Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: slide-on, cable diameter range: 1.5 ... 35 mm, Number of individual labels: 20, text field height: 4 mm, text field width: 23 mm

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

SH-Z2300 - Metal protective cap

1622141

https://www.phoenixcontact.com/in/products/1622141



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

https://www.phoenixcontact.com/in/products/1627226



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

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PHOENIX CONTACT (I) Pvt. Ltd.
A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420
info@phoenixcontact.co.in