

# K-8E-M23M9/5,0-H00/M23F8-C5-S - Connector in molded plastic on both sides



1622245

<https://www.phoenixcontact.com/us/products/1622245>

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Connector in molded plastic on both sides, application: Hybrid, series: KSH, M23-Socket, Straight, plastic molded, number of positions: 4+4+4+PE, on M23-Pin, Straight, plastic molded, number of positions: 4+4+4+PE, CAT5, 100 Mbps, type of locking: SPEEDCON, cable length: 5 m, shielded: yes, color of outer sheath: orange RAL 2003, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## Your advantages

- Transmission of signals, data, and power in just a single connector
- CAT5 data interface for up to 100 Mbps
- 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
- Customer-specific assemblies and cable lengths can be supplied

## Commercial data

Item number	1622245
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB34
Product key	ABRDGG
GTIN	4055626070018
Weight per piece (including packing)	2,068.868 g
Weight per piece (excluding packing)	2,059.634 g
Customs tariff number	85444290
Country of origin	DE

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## Technical data

### Notes

Notes on operation	Observe derating curve.
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### 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.
	<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></ul>
	<ul style="list-style-type: none"><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></ul>
	<ul style="list-style-type: none"><li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li></ul>
	<ul style="list-style-type: none"><li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li></ul>
	<ul style="list-style-type: none"><li>• Assembled products may not be manipulated or improperly opened.</li></ul>
	<ul style="list-style-type: none"><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></ul>
	<ul style="list-style-type: none"><li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li></ul>
	<ul style="list-style-type: none"><li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li></ul>
	<ul style="list-style-type: none"><li>• Ensure that the protective or functional ground has been properly connected.</li></ul>
	<ul style="list-style-type: none"><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></ul>
	<ul style="list-style-type: none"><li>• Only use tools recommended by Phoenix Contact</li></ul>
	<ul style="list-style-type: none"><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></ul>
	<ul style="list-style-type: none"><li>• Operate the connector only when it is fully plugged in and interlocked.</li></ul>
<ul style="list-style-type: none"><li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li></ul>	
<ul style="list-style-type: none"><li>• Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li></ul>	
<ul style="list-style-type: none"><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
Application	Hybrid

## Connector

### Connector specifications

Type	Straight, plastic molded
Housing material	PUR
Thread type	M23
Degree of protection	IP67, when in locked state
No. of pos.	4+4+4+PE
Direction of rotation	Standard
Contact switching type	Socket
Insertion/withdrawal cycles	100
Voltage	630 V AC
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV

### Connector specifications (second page)

Type	Straight, plastic molded
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	Pin
Insertion/withdrawal cycles	100
Voltage	630 V AC
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV

## Electrical properties

Nominal current $I_N$	26 A
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## Cable/line

Cable length	5 m
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## Cable specifications

Cable type	HDSL11Y-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	PP
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) 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	78 mm
Smallest bending radius, movable installation	116 mm
Max. bending cycles	5000000
Traversing path	5 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

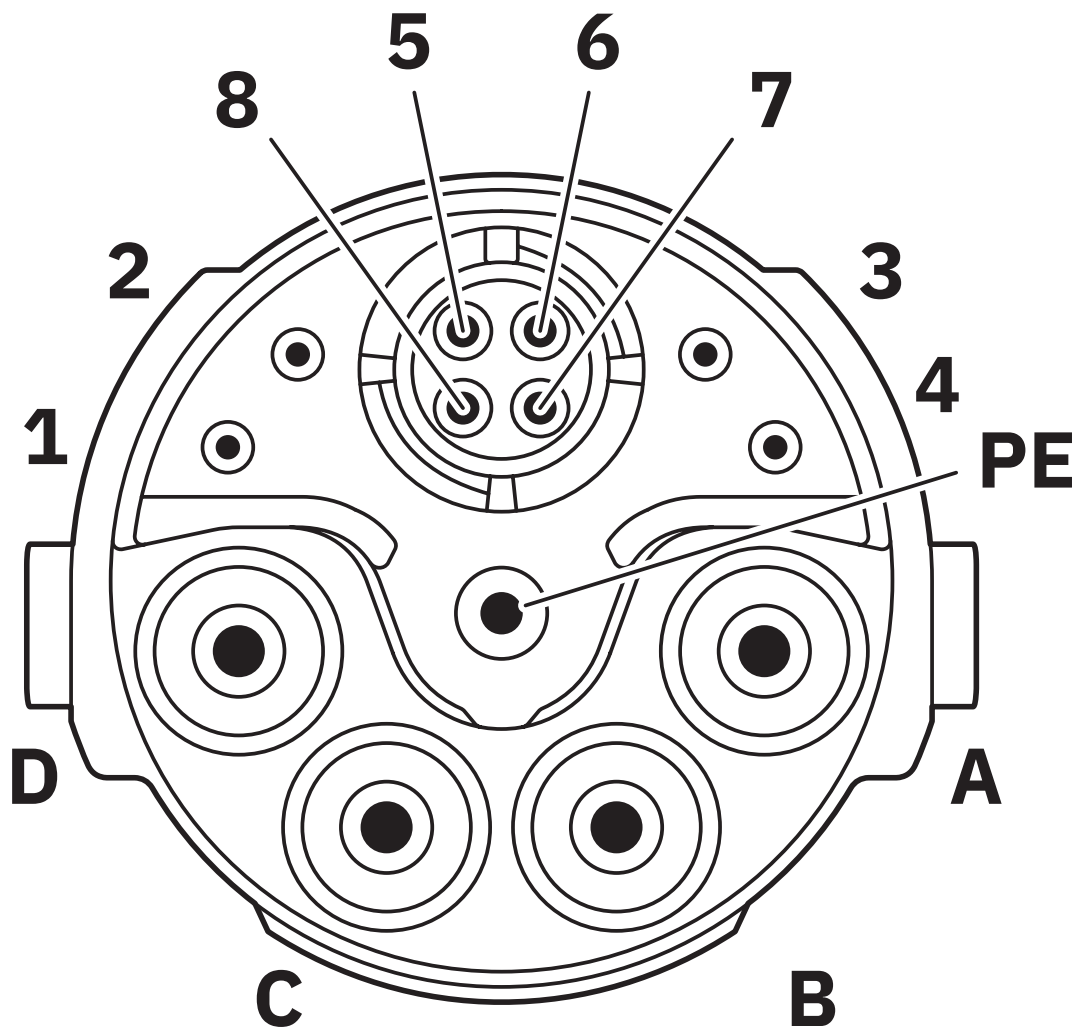


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Schematic diagram



Pin assignment of pin

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Diagram



- ① = Power: A-B, 2,5 mm<sup>2</sup>, 2x22 A
- = Power: C-D, 2,5 mm<sup>2</sup>, 2x13 A (constant)
- = Signal: 1-4, 0,5 mm<sup>2</sup>, 4x2 A (constant)
- = Data: 5-8, AWG22, 4x1 A (constant)

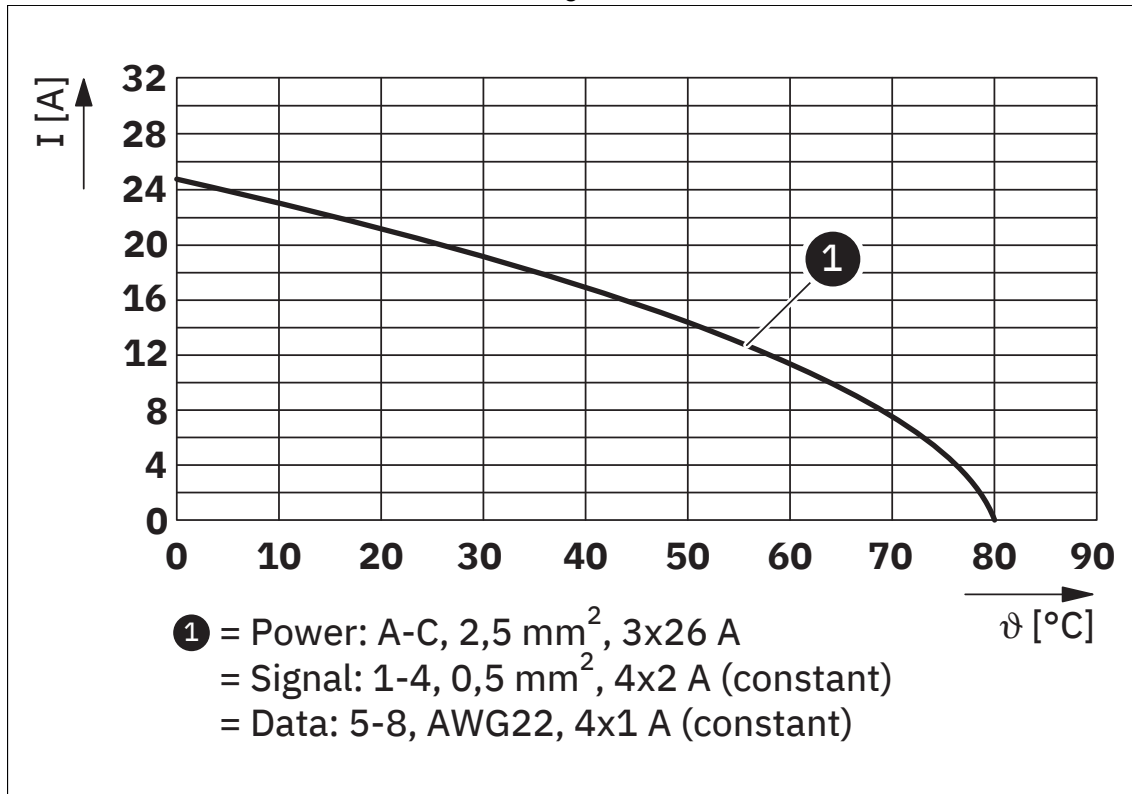
I = current strength,  $\vartheta$  = ambient temperature, power contacts A-B: 2.5 mm<sup>2</sup>, 2 x 22 A, power contacts C-D: 2.5 mm<sup>2</sup>, 2 x 13 A (constant), signal contacts 1-4: 0.5 mm<sup>2</sup>, 4 x 2 A (constant), data contacts 5-8: AWG22, 4 x 1 A (constant)

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Diagram



$I$  = current strength,  $\vartheta$  = ambient temperature, power contacts A-C: 2.5 mm<sup>2</sup>, 3 x 36 A, signal contacts 1-4: 0.5 mm<sup>2</sup>, 4 x 2 A (constant), data contacts 5-8: AWG22, 4 x 1 A (constant)

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Diagram



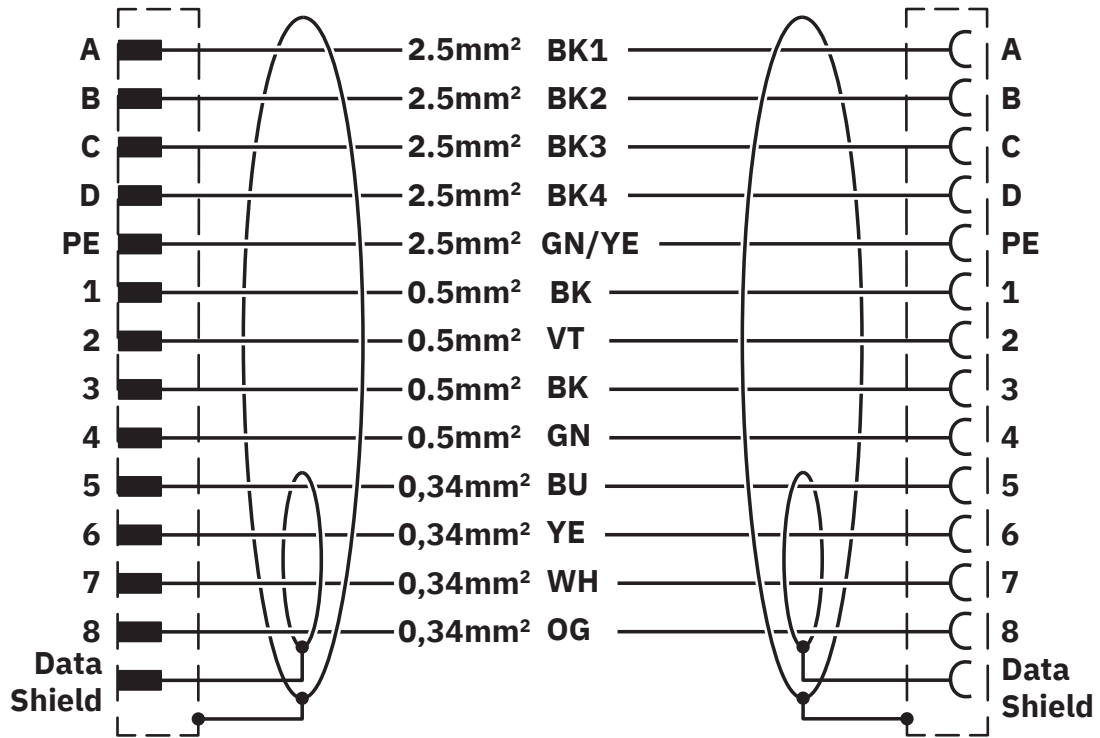
I = current strength,  $\vartheta$  = ambient temperature, power contacts A-D: 2.5 mm<sup>2</sup>, 4 x 20 A, signal contacts 1-4: 0.5 mm<sup>2</sup>, 4 x 2 A (constant), data contacts 5-8: AWG22, 4 x 1 A (constant)

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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/us/products/1622245>



### 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 $\text{mm}^2$
keine				
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 $\text{mm}^2$
keine				
Power	600 V	16 A	-	-
Signal	50 V	4 A	-	-
Data	30 V	1 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

### ETIM

ETIM 10.0	EC001855
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### UNSPSC

UNSPSC 21.0	39121400
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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	03b5d042-4e28-4574-8902-91b671a2f853

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