Flush-type connector - SACC-E-FS-4CON-M16/0,5 SCO

1523434

https://www.phoenixcontact.com/pc/products/1523434

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Flush-type connector, Universal, 4-position, Socket, straight, M12-SPEEDCON, A-coded, Front mounting, M16 x 1.5, Individual wires, cable length: 0.5 m, 0.34 mm^2, TPE litz wire

Your advantages

- Pre-assembled with litz wires for immediate use
- Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- For high transmission safety: shield connection to the housing with optional EMC nut
- SPEEDCON fast locking system reduces cabling times

Commercial Data

Item number	1523434
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	ABQCDB
Catalog Page	Page 37 (C-2-2019)
GTIN	4046356021265
Weight per Piece (including packing)	20.6 g
Weight per Piece (excluding packing)	20.3 g
Customs tariff number	85366990
Country of origin	DE

Technical Data

Notes

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 when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	• Observe the corresponding technical data. You will find information: o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the product
	• Only use tools recommended by Phoenix Contact
	• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products
	• 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
	• 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

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

Product properties

	Product type	Circular connectors (device side)
	Number of positions	4
	No. of cable outlets	1
	Shielded	no
	Coding	A - standard

Insulation characteristics		
	Overvoltage category	II
	Degree of pollution	3

Ambient conditions

	Degree of protection	IP67
	Degree of protection	IP65/IP67
	Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
		-40 °C ... 85 °C (without mechanical actuation)
		-25 °C ... 85 °C (Cable, flexible installation)
		-40 °C ... 85 °C (cable, fixed installation)

Connector

	Insertion/withdrawal cycles	> 100

Header 1		
	Head design	Socket
	Head cable outlet	straight
	Head thread type	M12
	Head locking type	SPEEDCON
	Coding	A-coded

Electrical properties

	Rated surge voltage	2.5 kV
	Contact resistance	≤ 3 mΩ
	Insulation resistance	≥ 100 MΩ
	Nominal voltage U_N	250 V
	Nominal current I_N	4 A

Material specifications

	Flammability rating according to UL 94	V0
	Sealing material	NBR/FKM
	Contact material	CuZn
	Contact surface material	Ni/Au
	Contact carrier material	PA 6.6
	Cable gland material	Zinc die-cast, nickel-plated

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Connection data

Conductor connection

Connection method	Individual wires

Mounting

Mounting type	Front mounting

Standards and regulations

M12

Standards/specifications	IEC 61076-2-101

Cable / line

Cable length	0.5 m

Cable structure

Cable type	TPE litz wire
Signal type/category	Universal
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.25 mm
AWG signal line	22
Material wire insulation	TPE
Thickness, insulation	0.21 mm (Core insulation)
Wire diameter incl. insulation	1.2 mm ±0.07 mm
Single wire, color	brown, white, blue, black

Electrical properties

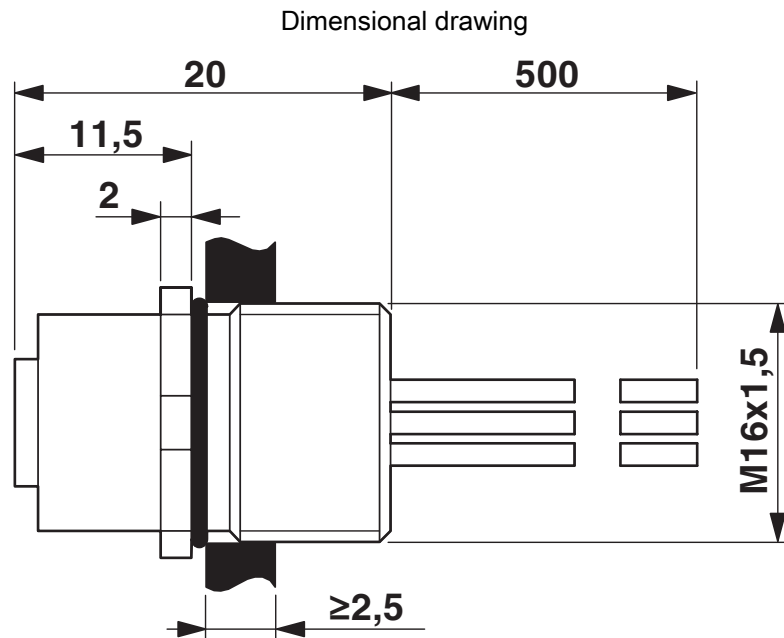|	
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Conductor resistance	≤ 57.6 mΩ/m
Cable insulation resistance	≥ 20 MΩ*km

Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Cable, flexible installation)
	-40 °C ... 85 °C (cable, fixed installation)

Drawings

Dimensional drawing

M12 flush-type connector

Dimensional drawing
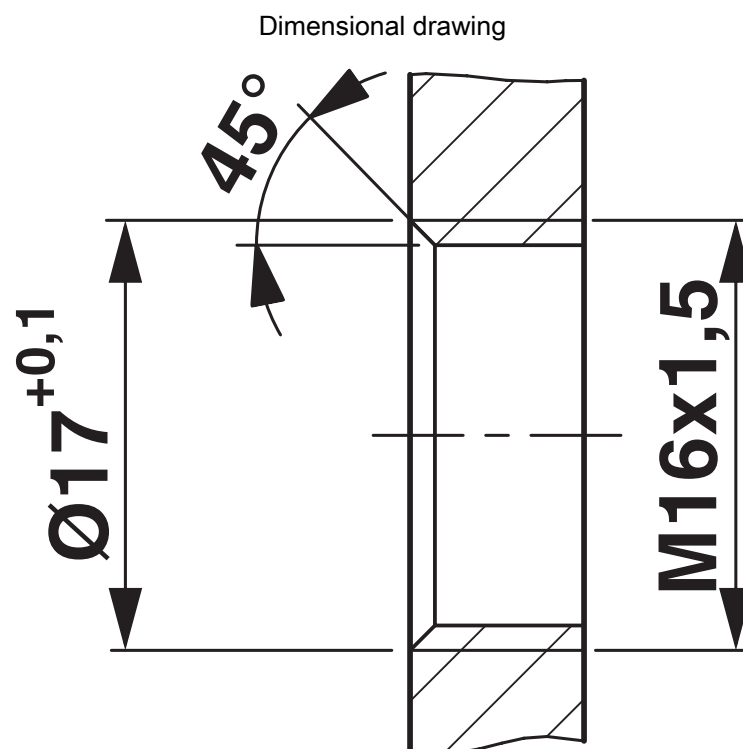
Housing cutout for M16 fastening thread, mounting panel with thread

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Schematic diagram

3   **4**

2   **1**
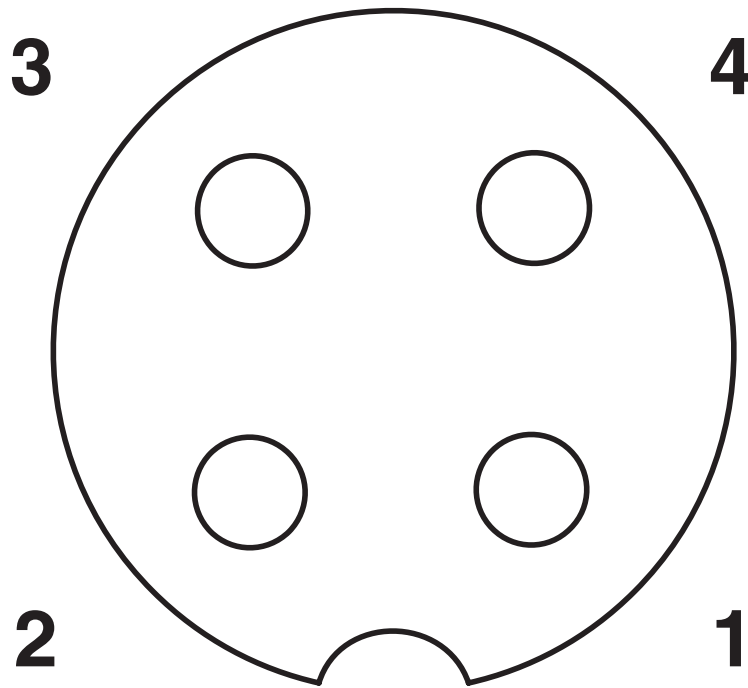
Pin assignment M12 socket, 4-pos., A-coded, view female side

Diagram

I [A]

$\mathbf{1} = 4 \times 0,34 \, mm^2$

$\vartheta [°C]$
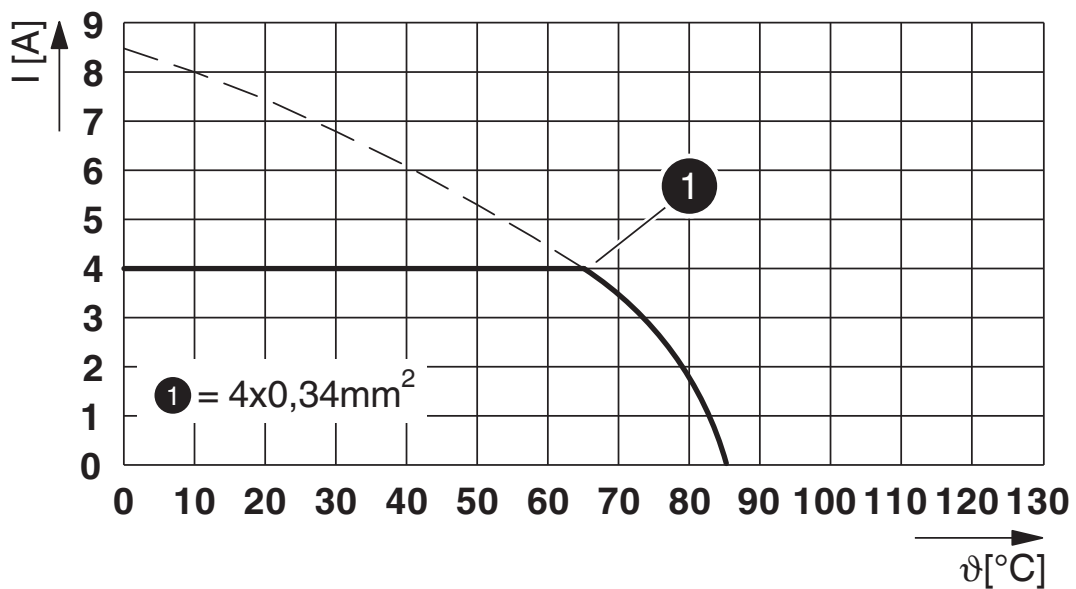
I = current strength, T = ambient temperature

Dimensional drawing

≤3

Ø16,1

13,5 +0,1
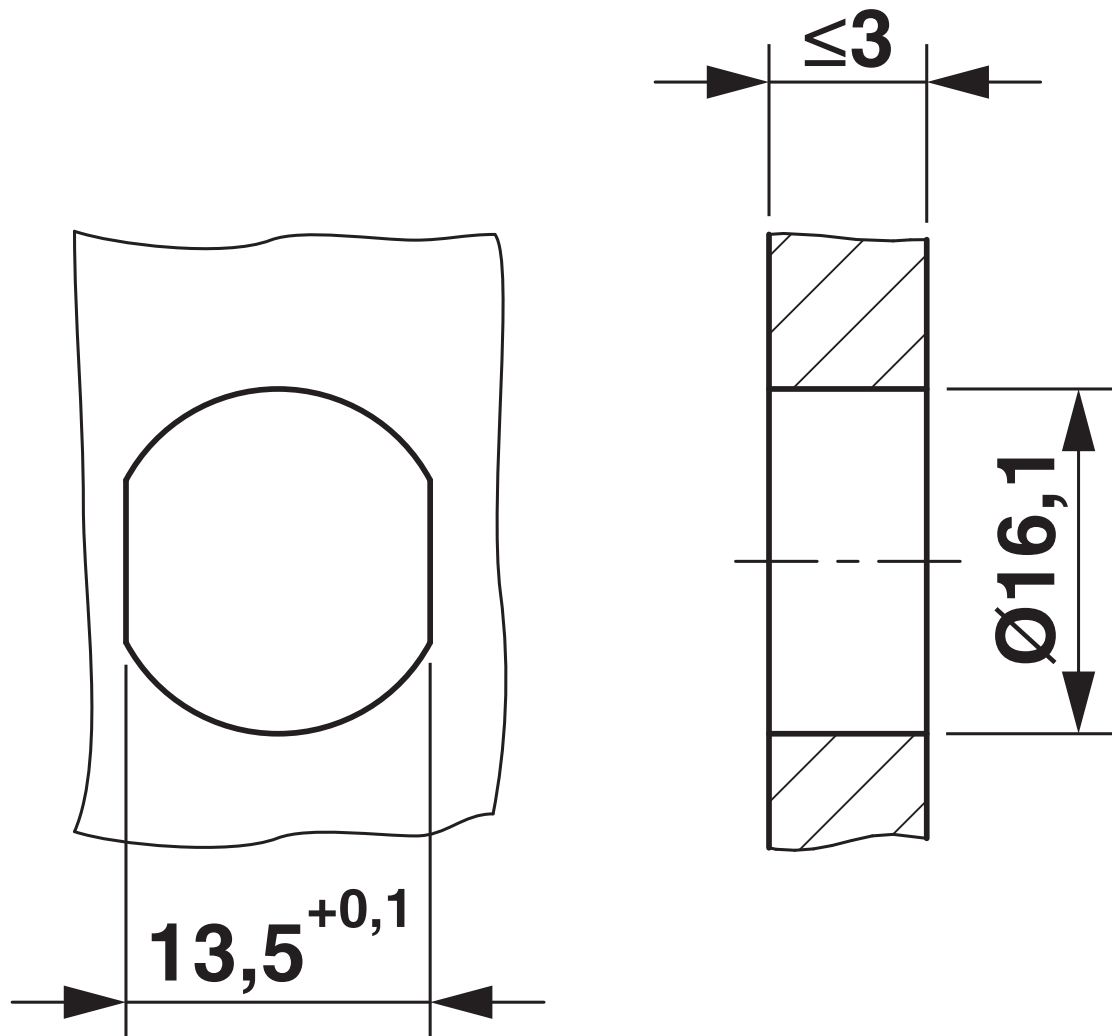
Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

Circuit diagram
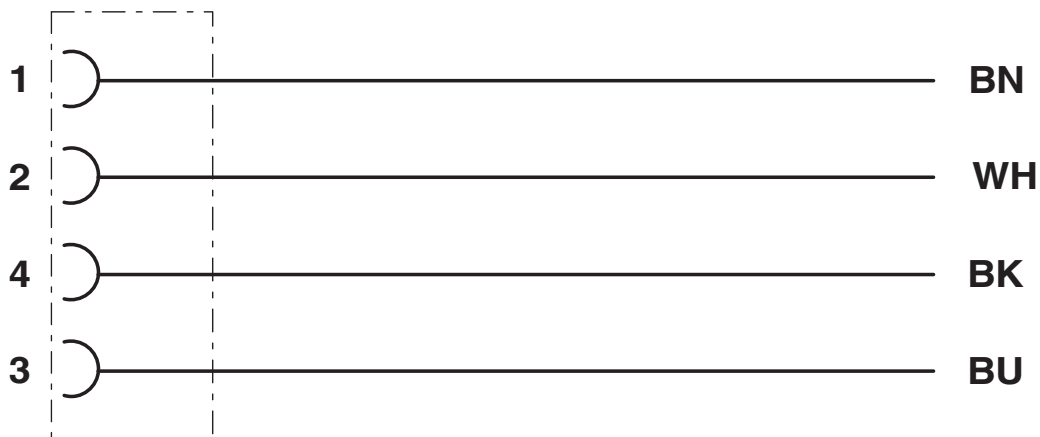
1	BN
2	WH
4	BK
3	BU

Contact assignment of the M12 socket

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Approvals

UL Recognized
Approval ID: FILE E 118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	4 A	- 22	-

EAC
Approval ID: B.01687

cULus Recognized
Approval ID: E221474-20140616

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	4 A	22 - 20	-

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Classifications

ECLASS

ECLASS-9.0	27440102
ECLASS-10.0.1	27440102
ECLASS-11.0	27440102

ETIM

ETIM 8.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

Screw plug

Screw plug - PROT-M12 - 1680539

https://www.phoenixcontact.com/pc/products/1680539

An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

Screw plug

Screw plug - PROT-M12 SH - 1503302

https://www.phoenixcontact.com/pc/products/1503302

An M12 screw plug for the unoccupied M12 sockets of the shielded sensor/actuator cable, boxes and flush-type connectors

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Screw plug

Screw plug - PROT-M12 FB - 1555538

https://www.phoenixcontact.com/pc/products/1555538

M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry

Flat gasket

Flat gasket - SACC-M16-SEAL CLM - 1430394

https://www.phoenixcontact.com/pc/products/1430394

M16 flat gasket for M12 flush-type connectors with M16 fastening thread

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Flat nut

Flat nut - SACC-E-MU-M16 - 1504097

https://www.phoenixcontact.com/pc/products/1504097

Flat nut with M16 thread