PHŒNIX CONTACT

Flush-type connector - SACCBP-MS-5CON-M16/1,0-PUR SCO - 1419409

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Flush-type plug, shielded, 5-pos., M12, A-coded, rear/screw mounting with M16 thread, with 1 m cable, 5 x 0.34 mm²

Your advantages

☑ Pre-assembled with cables in various standard lengths for immediate use

☑ Customer-specific assemblies and cable lengths can be supplied

☑ Sealed on the cable side for optimum tightness of seal

☑ For high transmission safety: shield connection to the housing with optional EMC nut

RoHS SPEEDCON LOCKING

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 533287
GTIN	4046356533287

Technical data

Dimensions

Length of cable	1 m

Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
Degree of protection	IP65/IP67

General

Note	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
Rated current at 40°C	4 A

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Technical data

General

Rated voltage	60 V
Rated surge voltage	1.5 kV
Number of positions	5
Insulation resistance	$\geq$ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Overvoltage category	II
Degree of pollution	3
Connection method	Individual wires
Insertion/withdrawal cycles	> 100
Torque	3 Nm ... 4 Nm (Installation-side)
Mounting type	Rear mounting M16 x 1.5 With flat nut

Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	LiF9YC11Y
Conductor cross section	5x 0.34 mm² (Signal line)
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.27 mm ±0.02 mm (Signal line)
Thickness, insulation	approx. 0.21 mm (Core insulation)
	approx. 0.8 mm (Outer cable sheath)
Wire colors	Brown, white, blue, black, gray
Overall twist	5 wires around filler to the core
Shielding	Braided copper wires
Optical shield covering	80 %
External sheath, color	black-gray RAL 7021
External cable diameter D	5.25 mm ±0.2 mm
Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	52 mm (up to +60°C)

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Technical data

Cable

Number of bending cycles	10000000
Bending radius	52 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s²
Cable weight	48 kg/km
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires
Standards/specifications	M12 connector IEC 61076-2-101
Insulation resistance	70 GΩ*km (at 20 °C)
Conductor resistance	max. 57 Ω/km (at 20 °C)
Nominal voltage, cable	300 V (at 20 °C)
Test voltage, cable	3000 V
Test voltage Core/Core	3000 V (at 20 °C)
Special properties	Flexible cable conduit capable
Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation)
	-25 °C ... 85 °C (cable, flexible installation)

Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	V0

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

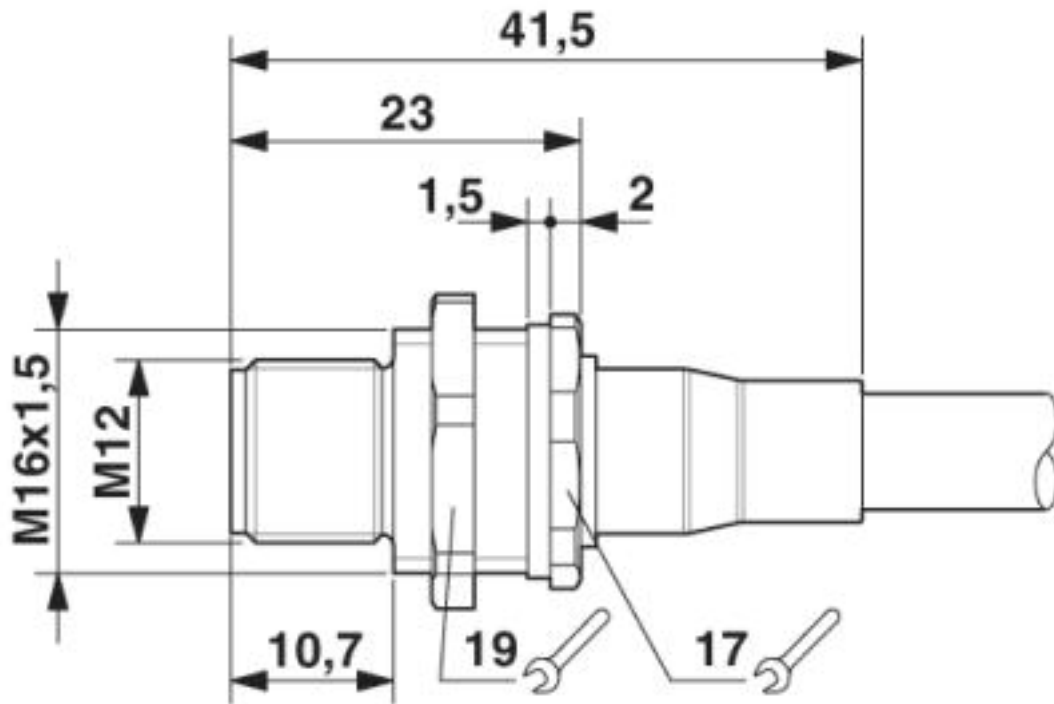# Flush-type connector - SACCBP-MS-5CON-M16/1,0-PUR SCO - 1419409

Dimensional drawing
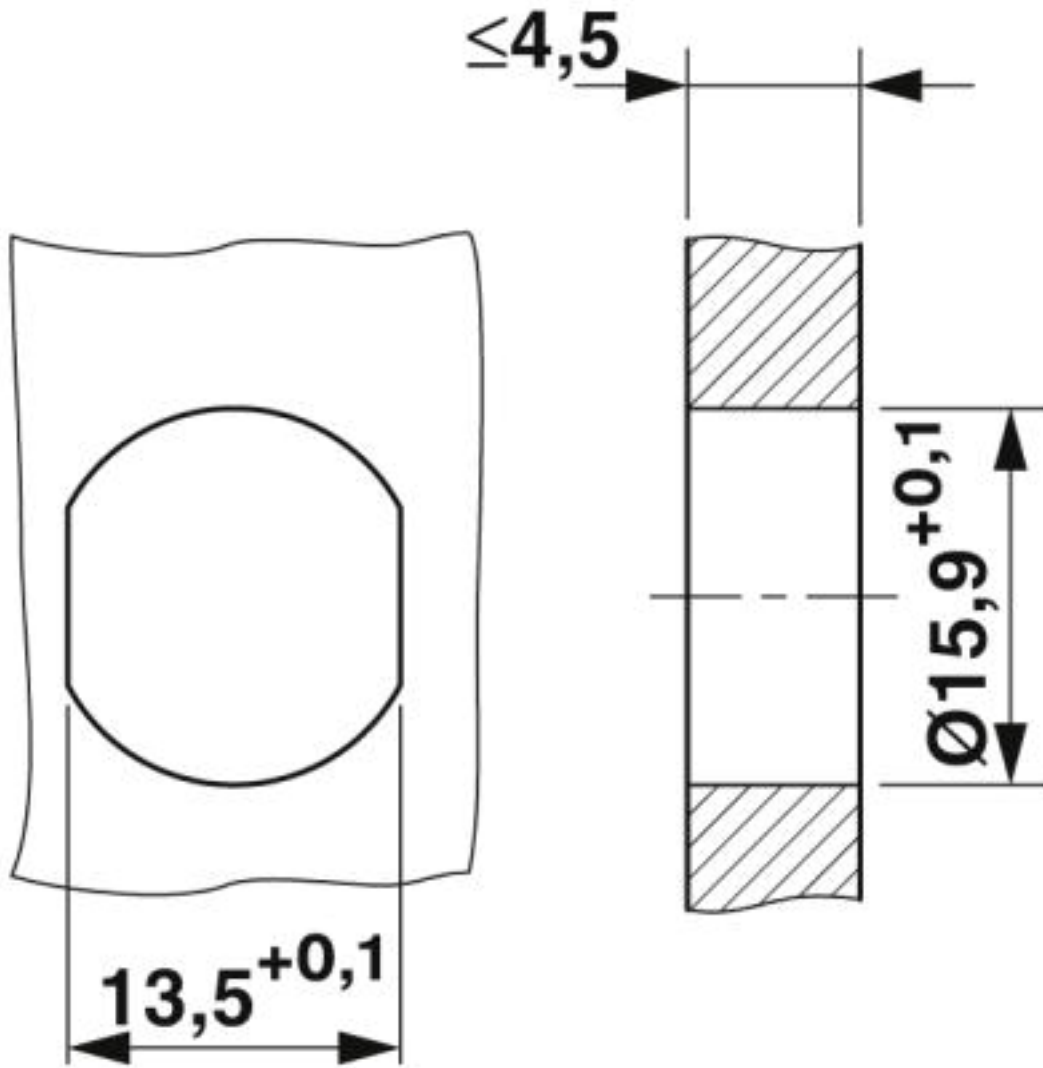
Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)
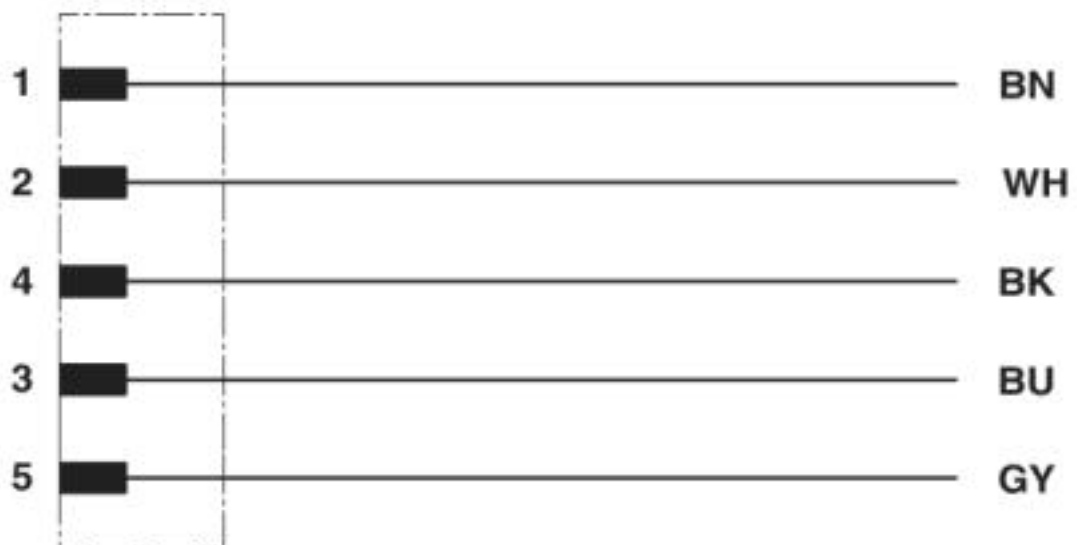
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Dimensional drawing

M12 flush-type connector

Circuit diagram

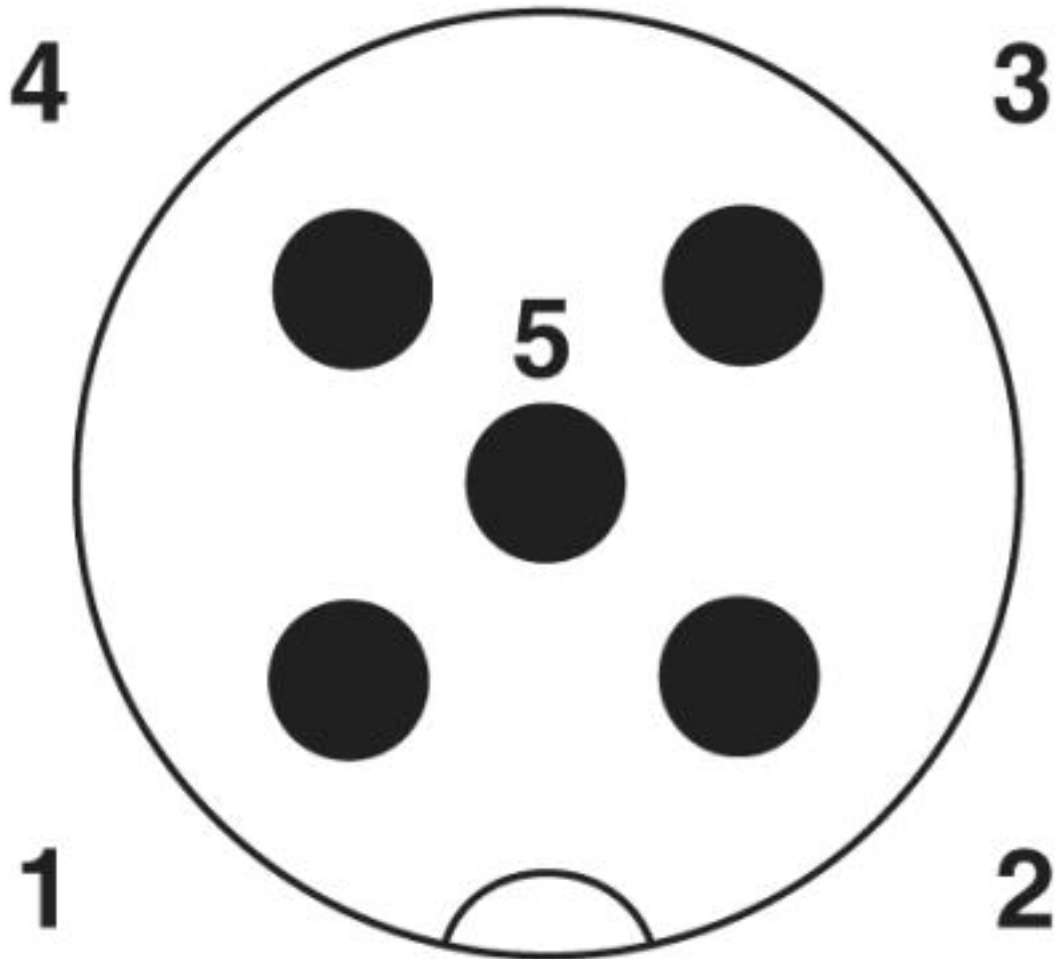| 1 | BN |
2	WH
4	BK
3	BU
5	GY

Contact assignment of the M12 plugs

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Schematic diagram

Pin assignment M12 connector, 5-pos., A-coded, socket side view

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Cable cross section

PUR halogen-free black [PUR]

Approvals

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EAC

Ex Approvals

Approval details

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Approvals

EAC	EAC	B.00767

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