

Device connector, rear mounting - SACCBP-FS-8CON-M16/1,0-PUR SCO



1419357

<https://www.phoenixcontact.com/de/produkte/1419357>

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Device connector, rear mounting, Universal, 8-position, PUR halogen-free, black-gray RAL 7021, shielded, Flush-type female connector, straight, M12-SPEEDCON, coding: A , on free cable end, Rear mounting, M16 x 1.5, Cable connection, cable length: 1 m, 0.25 mm², PUR halogen-free black, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239250

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

Commercial Data

Item number	1419357
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	C1 - Sensor-Aktor-Kabel
Product Key	ABQCED
Catalog Page	Page 51 (C-2-2019)
GTIN	4046356533331
Weight per Piece (including packing)	79,3 g
Weight per Piece (excluding packing)	78,2 g
Customs tariff number	85444290
Country of origin	DE

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1419357

<https://www.phoenixcontact.com/de/produkte/1419357>

Technical Data

Notes

Notes on operation	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.
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Mounting

Mounting type	Rear mounting M16 x 1.5 With flat nut
Assembly instructions	With flat nut

Product properties

Product type	Circular connectors (device side)
Number of positions	8
No. of cable outlets	1
Shielded	yes
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	V0
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	30 V
Nominal current I_N	2 A

Connection data

Conductor connection

Connection method	Cable connection
Type of contact	Crimp contacts

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1419357

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Conductor cross section	8x 0.25 mm ² (Signal line)
Tightening torque	3 Nm
	4 Nm

Connector

Connection 1

Head design	Flush-type female connector
Head cable outlet	straight
Head thread type	M12
Head locking type	SPEEDCON
Coding	A

Connection 2

Head design	free cable end
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Cable/line

Cable length	1 m
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PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	53 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	8
Shielded	yes
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	8x 0.25 mm ² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	5.9 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, green, yellow, gray, pink, blue, red
Thickness, insulation	approx. 0.2 mm

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Thickness, outer sheath	approx. 0.5 mm
Overall twist	8 wires around filler to the core
Optical shield covering	85 %
Max. conductor resistance	$\leq 78 \Omega/\text{km}$ (at 20 °C)
Insulation resistance	$\geq 1 \text{ G}\Omega\cdot\text{km}$ (at 20 °C)
Nominal voltage, cable	$\leq 300 \text{ V AC}$
Test voltage	$\geq 3000 \text{ V AC}$ (Spark test)
Test voltage Core/Shield	$\geq 2000 \text{ V AC}$ (for 60 s)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Max. bending cycles	2000000
Halogen-free	in accordance with DIN VDE 0472 part 815 according to IEC 60754-1
Flame resistance	in acc. with UL FT-2 according to UL 758/1581 (horizontal) in accordance with UL 758/1581 FT2 According to DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with IEC 60811-404
Other resistance	hydrolysis and microbe resistant Resistant to salt water low-abrasion partly UV-resistant in accordance with DIN EN ISO 4892-2-A
Special properties	Flexible cable conduit capable
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67 (When plugged in) IP65 (When plugged in) 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)

Standards and regulations

M12

Standards/specifications	IEC 61076-2-101
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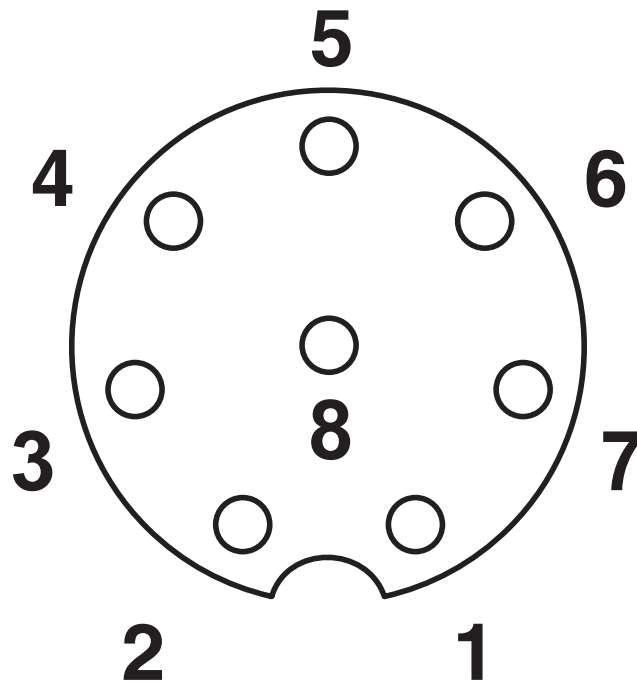


1419357

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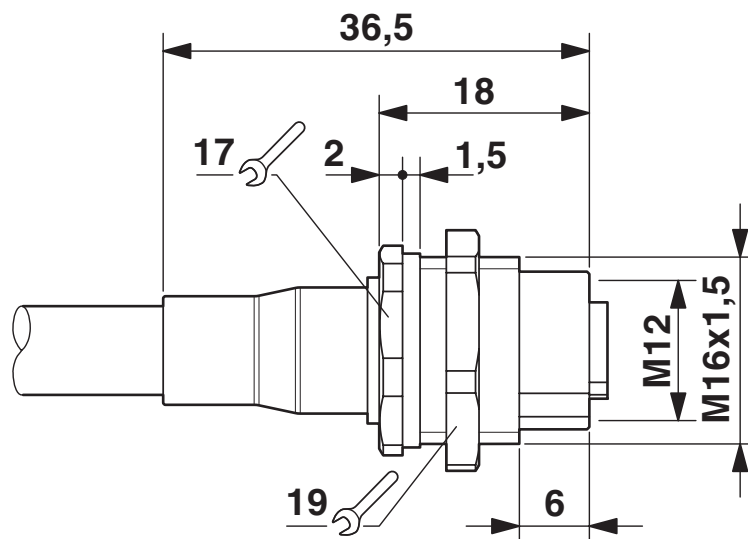
Drawings

Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

Dimensional drawing



M12 flush-type connector

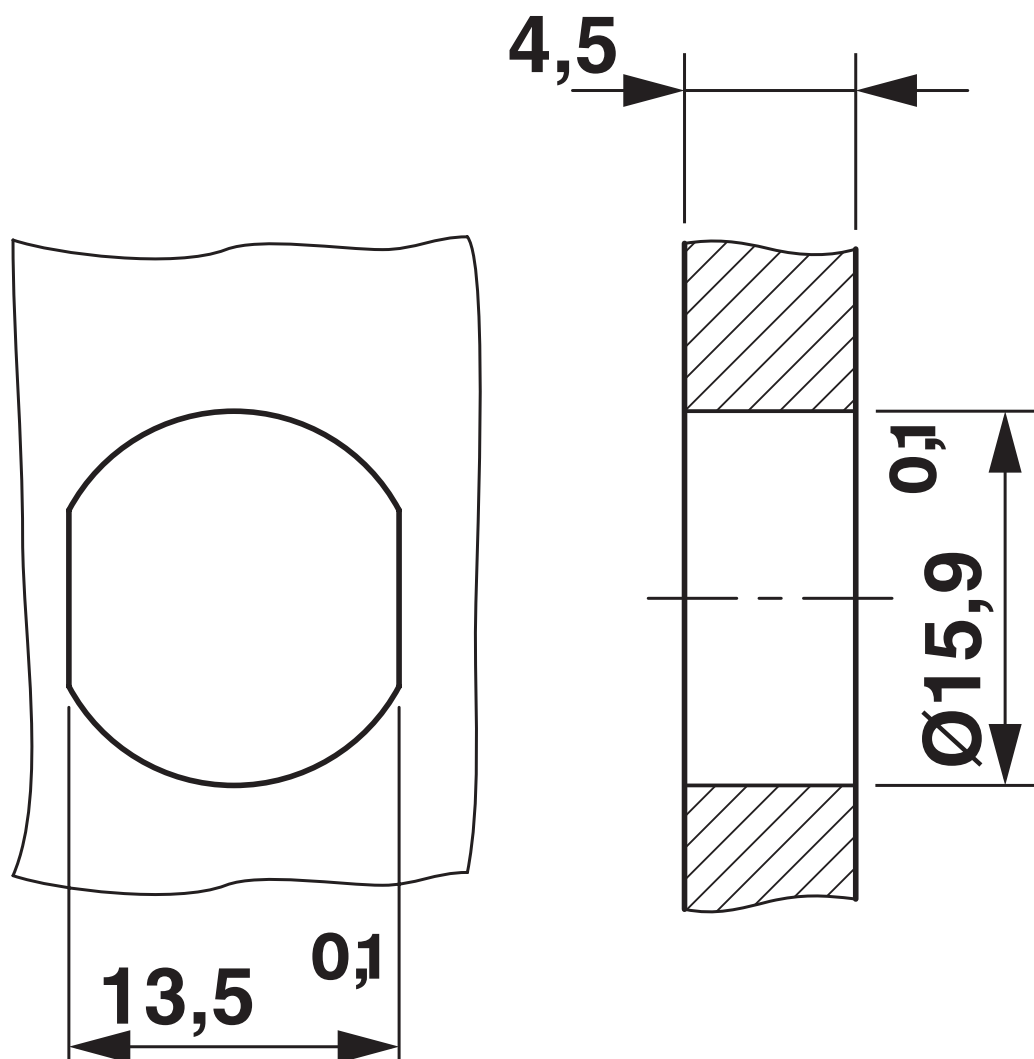
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1419357

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Dimensional drawing



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

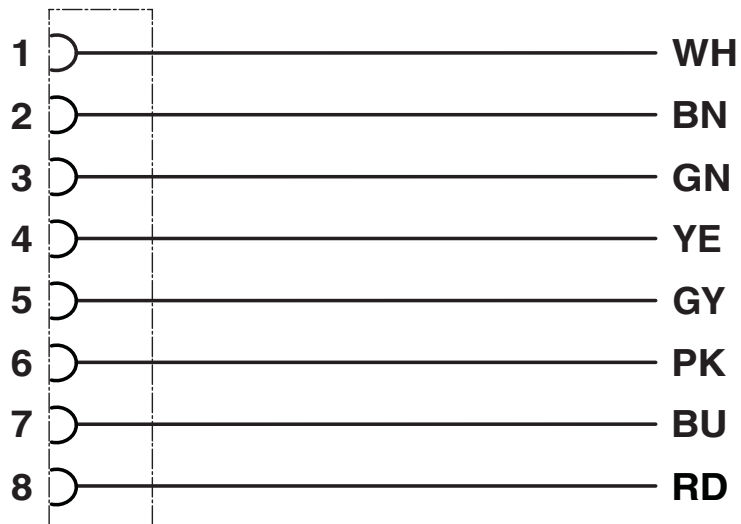
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Circuit diagram



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Approvals

	EAC Approval ID: B.01687
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	cUL Recognized Approval ID: E221474-20220908			
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	30 V	1.5 A	-	-

	UL Recognized Approval ID: E221474-20220908			
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	30 V	4 A	-	-

cULus Recognized

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Classifications

ECLASS

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

ETIM

ETIM 8.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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