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Flush-type socket, shielded, 8-pos., M12, A-coded, rear/screw mounting with M16 thread, with 1 m cable, 8 x  $0.25 \text{ mm}^2$ 

#### Your advantages

- $\begin{tabular}{ll} \hline \end{tabular}$  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



#### Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 53331
GTIN	4046356533331

#### Technical data

Degree of protection

#### Dimensions

Length of cable	1 m
Ambient conditions	
Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)

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	2 A
Rated voltage	30 V
Rated surge voltage	0.8 kV



### Technical data

#### General

Number of positions	8
Insulation resistance	$\geq$ 100 M $\Omega$
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Overvoltage category	П
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	FKM

#### Cable

Cable type	PUR halogen-free black
Cable abbreviation	Li9Y-V1-C-V1-11Y
Conductor cross section	8x 0.25 mm² (Signal line)
AWG signal line	24
Conductor structure signal line	32x 0.10 mm
Core diameter including insulation	1.15 mm ±0.07 mm
Thickness, insulation	$\geq$ 0.21 mm (Core insulation)
	approx. 0.6 mm (Outer cable sheath)
Wire colors	Brown, white, green, yellow, gray, pink, blue, red
Overall twist	8 wires around filler to the core
Shielding	Braided copper wires
Optical shield covering	85 %
External sheath, color	black-gray RAL 7021
External cable diameter	5.90 mm
External cable diameter D	5.9 mm ±0.2 mm
Smallest bending radius, fixed installation	59 mm
Smallest bending radius, movable installation	59 mm
Number of bending cycles	2000000
Bending radius	59 mm
Minimum bending radius, drag chain applications	10 x D
Traversing path	10 m



### Technical data

#### Cable

Traversing rate	3 m/s
Acceleration	10 m/s <sup>2</sup>
Cable weight	54 kg/km
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Standards/specifications	M12 connector IEC 61076-2-101
Insulation resistance	$\geq$ 1 GΩ*km (at 20 °C)
Conductor resistance	$\leq$ 78 $\Omega$ /km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Test voltage Core/Shield	≥ 2000 V AC (for 60 s)
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

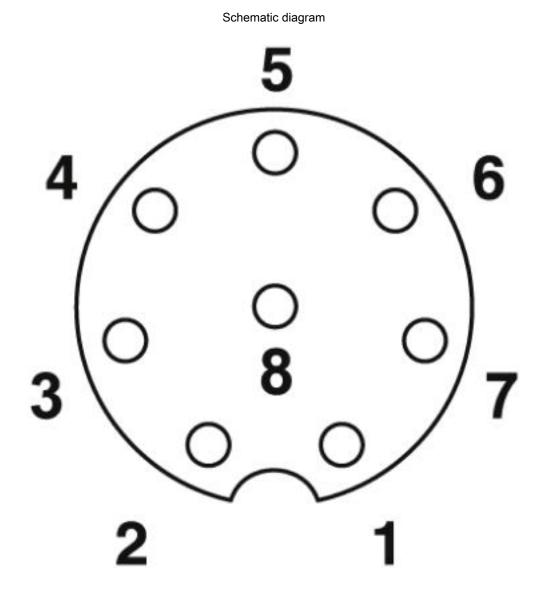
Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	V0

#### **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"

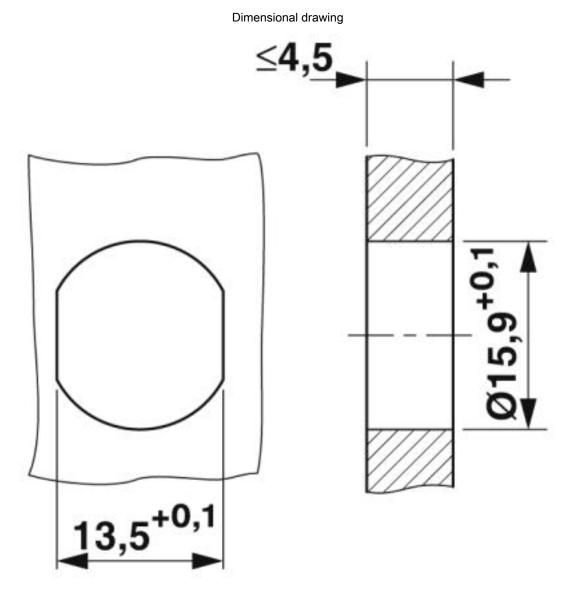
Drawings





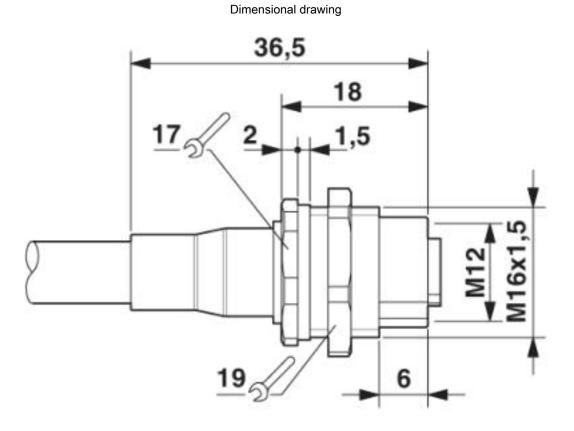
Pin assignment M12 socket, 8-pos., A-coded, view female side





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

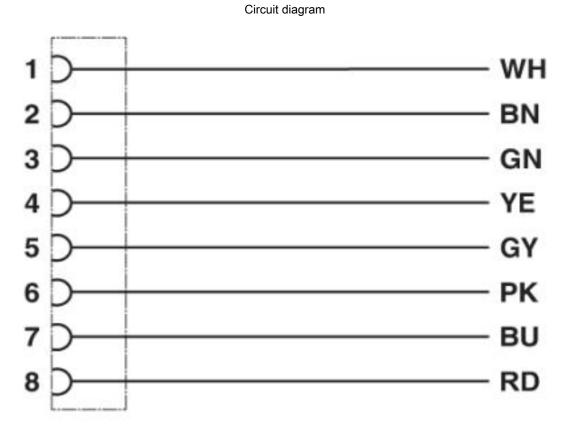




M12 flush-type connector

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Contact assignment of the M12 socket



Cable cross section



PUR halogen-free black [PUR]

#### Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

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### Approvals

EAC **ERE** B.00767

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