


**SAC-4P-M12MS/2,0-28X/M12FS OD**

Order No.: 1454105

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Sensor/Actuator cable, 4-position, PE-X halogen-free, Black-gray RAL 7021, Plug, straightLink:M12, A - standard, on Socket, straight M12, A - standard, Cable length: 2 m

**Commercial data**

GTIN (EAN)	
sales group	D111
Pack	1 pcs.
Customs tariff	85444290
Catalog page information	Page 219 (PC-2011)

**Product notes**

WEEE/RoHS-compliant since:  
03/04/2010



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**Technical data****General data**

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	4
Volume resistance	≤ 5 mΩ

Insulation resistance	≥ 100 MΩ
Length of cable	2 m
Ambient temperature (operation)	-40 °C ... 105 °C

#### General characteristics

Standards/regulations	M12 connector IEC 61076-2-101
Coding	A - standard
Pollution degree	3
Degree of protection	IP65/IP68/IP69K
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PP
Material of grip body	PP
Material, knurls	High-grade steel
Sealing material	FPM
Status display	No

#### Conductor data

Cable type	PE-X black
Cable type (abbreviation)	28X
Cable abbreviation	Li2X2X
Conductor cross section	0.5 mm <sup>2</sup>
AWG signal line	20
Conductor structure signal line	28x 0.15 mm
Core diameter including insulation	1.6 mm ±0.05 mm
Thickness, insulation	~ 0.3 mm (Core insulation) ~ 0.6 mm (Outer cable sheath)
External cable diameter	5.2 mm ± 0.2 mm
Wire colors	Brown, white, blue, black
External sheath, color	Black-gray RAL 7021
Insulation resistance	≥ 100 MΩ*km (at 20°C)
Conductor resistance	max. 39 Ω/m (at 20°C)
Nominal voltage, conductor	≤ 300 V (AC)
Test voltage, conductor	≥ 3000 V (AC)

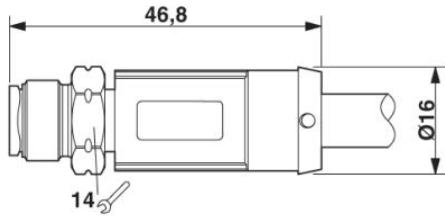
Overall twist	4 wires, twisted
Length of twist, overall twist	61.6 mm
Outer sheath, material	PE-X
Material conductor insulation	PE-X
Conductor material	Bare Cu litz wires
Cable weight	44 kg/km
Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	52 mm
Number of bending cycles	2000000
Bending radius	52 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s <sup>2</sup>
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation) -15 °C ... 105 °C (cable, flexible installation)
Flame resistance	According to DIN 60332-1-2 According to DIN EN 50266-2-5
Halogen-free	in accordance with DIN VDE 0472 part 815
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	UV resistant According to DIN VDE 0276-605

### Accessories

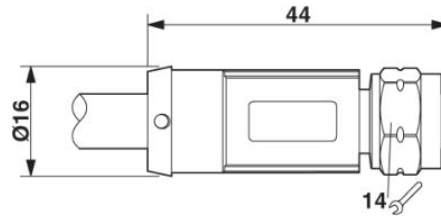
Item	Designation	Description
<b>Tools</b>		
1212513	SAC BIT M12-W14	SAC nut, for assembling M12 connectors with hexagonal high-grade steel knurl, with 4 mm hexagonal drive
1208429	TSD 04 SAC	Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

**Diagrams/Drawings**

Dimensioned drawing

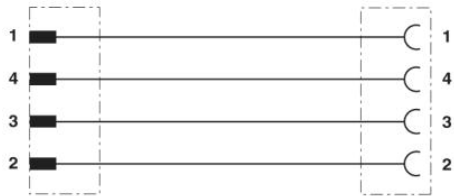


M12 x 1 male connector, straight



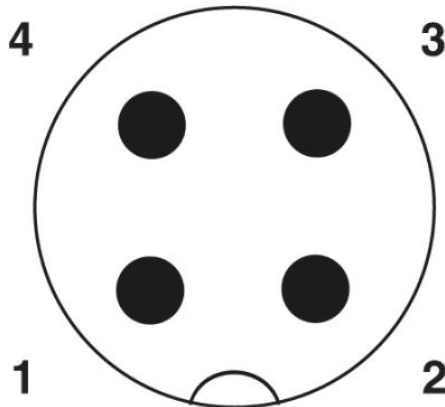
M12 x 1 female connector, straight

Circuit diagram

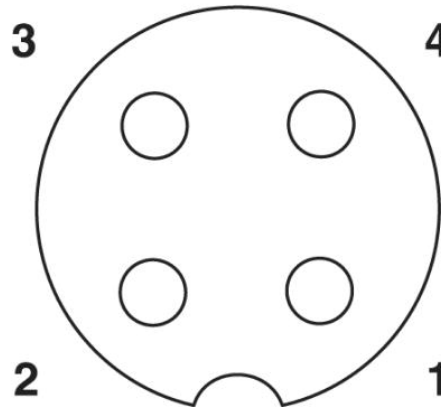


Contact assignment of the M12 connector and the M12 socket

Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side



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

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