


22260233	DATA SHEET	
Valid from: 12.09.2019	AB-C3-M12MS-(L*)PUR-M12FS	

Product description

Sensor/actuator cable, 3-pos., PUR black, straight plug
M12 on straight socket M12.



Product variations

Article number	Article description	Length (L*) [m]
22260233	AB-C3-M12MS-0,3PUR-M12FS	0.3
22260234	AB-C3-M12MS-0,6PUR-M12FS	0.6
22260235	AB-C3-M12MS-1,0PUR-M12FS	1.0
22260236	AB-C3-M12MS-2,0PUR-M12FS	2.0

This datasheet is also valid for other length configurations. Other lengths upon request.

M12 connector


General properties

Coding	A
Protection degree	IP65/IP67/IP68
Number of contacts	3
Ambient temperature	-25 °C to +90 °C
Rated voltage	250 V
Rated current	4 A
Insulation resistance	≥ 100 MΩ
Contact resistance	≤ 5 mΩ
Overvoltage category	III
Pollution degree	3
Tightening torque	0.4 Nm
Mating cycles	100

Materials

Contact carrier	TPU GF
Contact carrier, inflammability class in accordance with UL 94	HB
Material, contacts	CuSn
Contact surface	Ni/Au
Material, grip body	TPU
Material, knurl	zinc die-cast, nickel-plated
Material, sealing	NBR

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Cable

Signal line, construction	42 x 0.10 mm
Signal line, AWG	22
Conductor, material	stranded of bare copper wire
Conductor, cross-section	0.34 mm ²
Number of cores	3
Core identification code	brown (1), blue (2), black (4)
Outer diameter, core insulation	1.27 mm
Core insulation, material	PP
Outer sheath	PUR
Outer sheath, color	grey-black similar to RAL 7021
Outer diameter, cable	4.4 mm
Ambient temperature, fixed installation	-40 °C to +80 °C
Ambient temperature, flexing	-25 °C to +80 °C
Minimum bending radius, fixed installation	5 x cable diameter
Minimum bending radius, flexing	10 x cable diameter
Travel length	10 m
Travel speed	3 m/s
Number of bending cycles	4.000.000
Nominal voltage	≤ 300 V
Test voltage	≥ 3000 V
Flame retardance	flame retardant acc. to UL 758/1581 (horizontal) UL 758/1581 FT2
Halogen free	halogen free acc. to DIN VDE 0472 Part 815
Oil resistance	oil resistant acc. to DIN EN 60811-2-1 resistant to hydrolysis and microbes good resistant to acids, lyes and solvents
Other resistances	resistant to sea water limited UV resistance acc. to DIN EN ISO 4892-2-A low-adhesion abrasion-resistant

Standards/Approvals

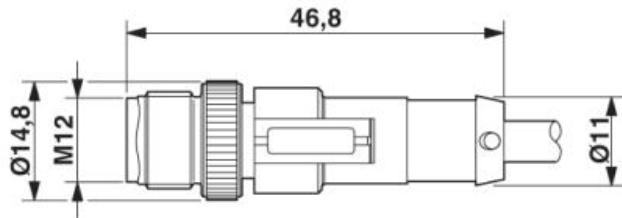
Product standard, M12 connector	IEC 61076-2-101
UL-listed, E-File	E249137

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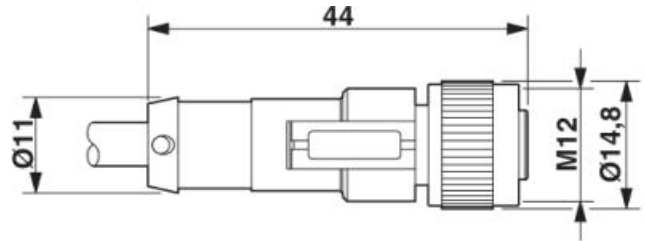
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Drawings

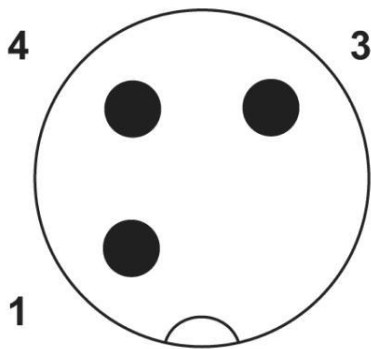
Dimensioned drawing, M12 plug



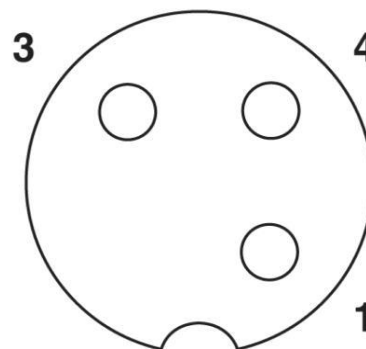
Dimensioned drawing, M12 socket



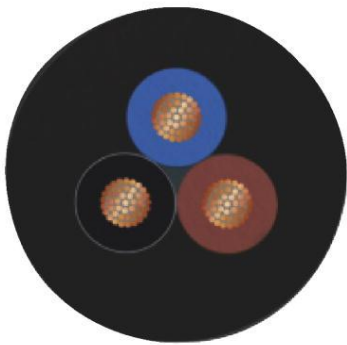
Pin assignment



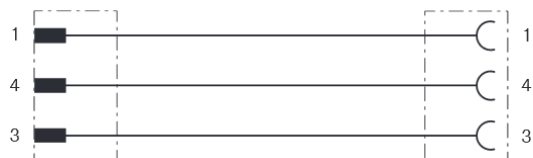
Pin assignment



Cable



Wiring diagram



Core identification code: brown (1), blue (2), black (4)

Application range

Automation, industrial machinery and plant engineering

Note

Photographs are not true to scale and do not represent detailed images of the respective products.

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