


22260821	<b>DATA SHEET</b>	
Valid from: 13.12.2018	<b>AB-C5-M12MS-(L*)PUR-M12FS-SH</b>	

## Product description

Sensor/actuator cable, 5-pos., PUR black, straight plug M12 on straight socket M12, shielded.



## Product variations

Article number	Article description	Length (L*) [m]
22260821	AB-C5-M12MS-1,0PUR-M12FS-SH	1
22260870	AB-C5-M12MS-1,5PUR-M12FS-SH	1,5
22260940	AB-C5-M12MS-5,0PUR-M12FS-SH	5
22260822	AB-C5-M12MS-10,0PUR-M12FS-SH	10

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

## M12 connector


### General properties

Coding	A
Protection degree	IP65/IP67
Number of contacts	5
Ambient temperature	-25 °C to +90 °C (-13 °F to +197 °F)
Rated voltage	60 V
Rated current	4 A
Insulation resistance	≥ 100 MΩ
Overvoltage category	II
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 <sup>2</sup>
Number of cores	5
Core identification code	brown (1), white (2), blue (3), black (4), grey (5)
Outer diameter, core insulation	ca. 1.27 mm
Core insulation, material	PP
Screening	braid of copper wire
Coverage	80 %
Outer sheath	PUR
Outer sheath, color	grey-black similar to RAL 7021
Outer diameter, cable	ca. 5.25 mm
Ambient temperature, fixed installation	-40 °C to +80 °C (-40 °F to +176 °F)
Ambient temperature, flexible installation	-25 °C to +80 °C (-13 °F to +176 °F)
Minimal bending radius, fixed installation	26 mm
Minimal bending radius, flexible installation	52 mm
Travel length	10 m
Travel speed	3 m/s
Acceleration	10 m/s <sup>2</sup>
Number of bending cycles	10.000.000
Flame retardance	flame retardant acc. to UL 758/ 1581 FT-2 and DIN EN 60332-2-2 (20s)
Halogen free	halogen free acc. to DIN VDE 0472 Part 815
Oil resistance	acc. to DIN EN 60811-2-1
Other resistances	resistant to hydrolysis and microbes limited UV resistance acc. to DIN EN ISO 4892-2-A

## Standards/Approvals

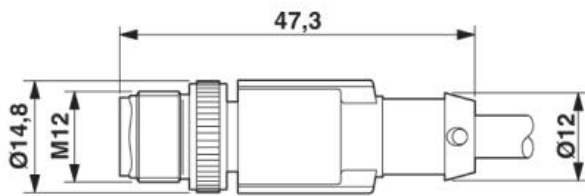
Product standard, M12 connector	IEC 61076-2-101
UL-listed, E-File	E249137

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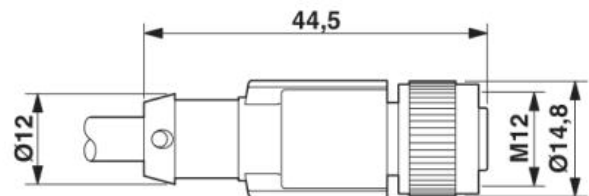
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## Drawings

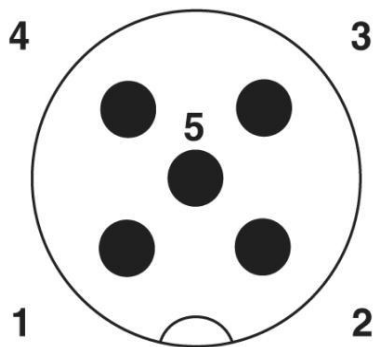
Dimensioned drawing, M12 plug



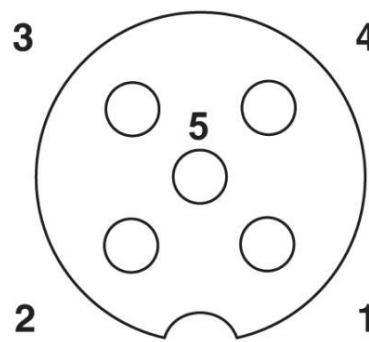
Dimensioned drawing, M12 socket



Pin assignment



Pin assignment

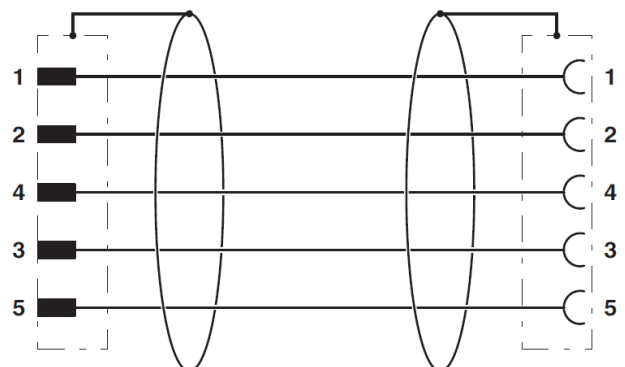


Cable



Core identification code: brown (1), white (2), blue (3), black (4), grey (5)

Wiring diagram



## Note

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

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