

22260453	DATA SHEET	
Valid from: 21.12.2023	AB-C3-M12MS-(L*)PUR-SH	

Product description

- Sensor/actuator cable, 3-pol, PUR black
- Straight M12-plug on free conductor end
- Shielded



General characteristics

Number of pins	3
Ambient temperature	-25 °C to +90 °C (-13°F to 194°F) (plug / jack) -40 °C to +80 °C (-40°F to 176°F) (cable, fixed installation) -25 °C to +80 °C (-13°F to 176°F) (cable, movable installation)
Degree of protection	IP65 / IP67
Coding	A-standard
Tightening torque	0,4 Nm (M12-connector)
Plugging cycles	≥ 100

Variation

Article number	Description	Length [m]	Configuration
22260453	AB-C3-M12MS-2,0PUR-SH	2	straight
22260454	AB-C3-M12MS-5,0PUR-SH	5	straight
22260455	AB-C3-M12MS-10,0PUR-SH	10	straight

Additional note

Data sheet also valid for variant lengths. Other lengths on request.

Electrical properties

Rated voltage	48 V AC / 60 V DC
Rated current	4 A
Overvoltage category	II
Pollution degree	3

Mechanical properties

Plug

Inflammability class in accordance with UL 94	HB
Contact, material	CuSn
Contact carrier, material	TPU GF
Contact surface, material	Ni/Au
Knurl, material	Zinc diecasting, nickel-plated
Handle, material	TPU, flame retardant, self-extinguishing
Sealing, material	NBR

Line

Cable construction	3 x AWG22/42
Signal line, construction	42 x 0,1 mm
Conductor cross-section	0,34 mm ²

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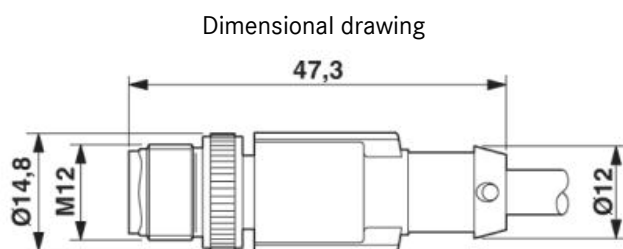
Conductor diameter including isolation	1,27 mm $\pm$ 0,02 mm
Cable outer diameter D	5,9 mm $\pm$ 0,15mm
Insulation color	brown, blue, black
Sheath color	grey-black, RAL 7021
Shielding	Braid of copper wires
Number of bending cycles	10.000.000
Bending radius	47 mm
Traveling distance	10 m
Traveling speed	3 m/s
Acceleration	10 m/s ²
Cable weight	31 kg/km
Outer coating, material	PUR
Wire insulation, material	PP
Insulation resistance	$\geq 100 \text{ G}\Omega \cdot \text{km}$ (at 20 °C)
Conductor resistance	$\leq 58 \text{ }\Omega/\text{km}$ (at 20 °C)
Flame resistance	acc. to UL 758/1581 FT2 DIN EN 60332-2-2 (20 s)
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 good resistant to acids, lyes and solvents limited UV resistance acc. to DIN EN ISO 4892-2-A

Standards/Approvals

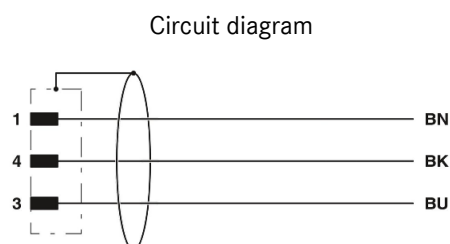
Product standard, M12 connector
UL-Listed, E-File

IEC 61076-2-101
E249137

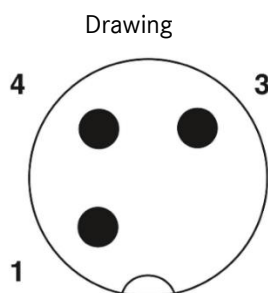
Technical drawing



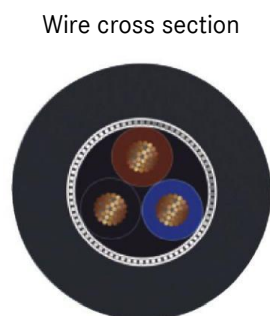
Plug M12 x 1, straight, shielded



Pin assignment from M12-plug



Pin assignment M12-plug, 3-pol, A-coding



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Application range

For increased mechanical load and rough operating conditions

Note

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

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