

22260775	DATA SHEET	
Valid from: 17.09.2018	AB-PB-M12MS-(L*)PUR-M12FS	

Description

- Bus system cable, 2-pins, shielded, PUR halogen-free, violet
- PROFIBUS 12 Mbit/s
- Straight M12-plug on straight M12-jack



General characteristics

Fieldbus	PROFIBUS
Number of pins	2
Ambient temperature	-25 to +90 °C (-13°F to 194°F) (connector) -40 to +80 °C (-40°F to 176°F) (cable fixed installation) -30 to +80 °C (-22°F to 176°F) (cable flexible) ≤ +70 °C (158 °F) (dragchain)
Degree of protection	IP 65 / IP 67
Coding	B-inverse
Torque	0.4 Nm (M12-connector)

Variation

Material	Description	Length (L*) [m]	Configuration
22260955	AB-PB-M12MS-0,2PUR-M12FS	0,2	Straight - straight
22260773	AB-PB-M12MS-0,3PUR-M12FS	0,3	Straight - straight
22260774	AB-PB-M12MS-1,0PUR-M12FS	1	Straight - straight
22260775	AB-PB-M12MS-2,0PUR-M12FS	2	Straight - straight
22260869	AB-PB-M12MS-3,0PUR-M12FS	3	Straight - straight
22260776	AB-PB-M12MS-5,0PUR-M12FS	5	Straight - straight
22260777	AB-PB-M12MS-10,0PUR-M12FS	10	Straight - straight
22260907	AB-PB-M12MS-15,0PUR-M12FS	15	Straight - straight
22260908	AB-PB-M12MS-20,0PUR-M12FS	20	Straight - straight

Electrical properties

Rated voltage	250 V
Rated current at 40 °C	4 A
Overvoltage category	II
Pollution degree	3
Characteristic impedance, line	150 Ω ± 10 % (3 MHz ... 20MHz)

Connector pin assignment

Pin = wire colour (Signal) = Pin (optional)	2 (plug) = GN (A-line) = 2 (jack) 4 (plug) = RD (B-line) = 4 (jack)
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Mechanical properties

Plug & jack

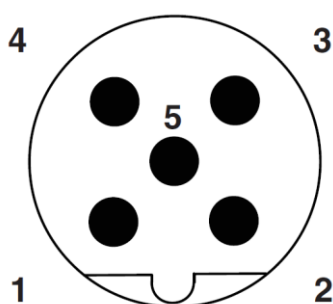
Contact	CuSn
Contact surface	Ni / Au
Contact carrier	TPU GF
Knurl	Zinc diecasting, nickel-plated
Handle	TPU
Seal	NBR

Line

Cable construction	2x AWG24/19
Conductor diameter including isolation	2.55 mm ±0.07 mm
Cable outer diameter	7.8 mm ±0.2 mm
Core identification	red, green
Sheath colour	violet, similar to RAL 4001
Shielding	Plastic Laminated alufoil, braid of tinned copper wires
Bending radius	80 mm
Number of bending cycle	5000000
Traveling distance	4.5 m
Travel speed	3 m/s
Acceleration	3 m/s ²
Cable weight	90 kg/km
Outer coating, material	PUR
Wire insulation, material	Foam-Skin PP
Flame resistance	UL 1581, Sec. 1060 (FT-1) IEC 60332-1-2
Halogen-free	acc. to DIN VDE 0472 part 815 acc. to IEC 60754-1

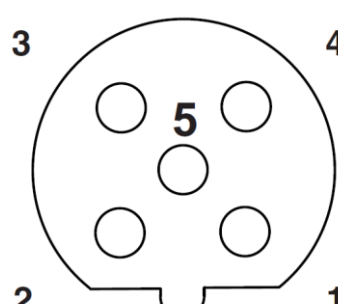
Technical drawing

Drawing



M12-plug, 5-pins, B-coding

Drawing

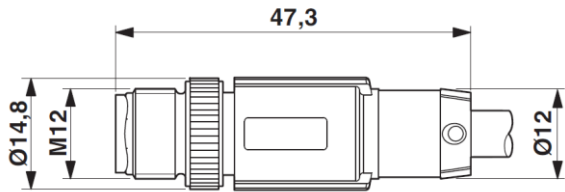


M12-jack, 5-pins, B-coding

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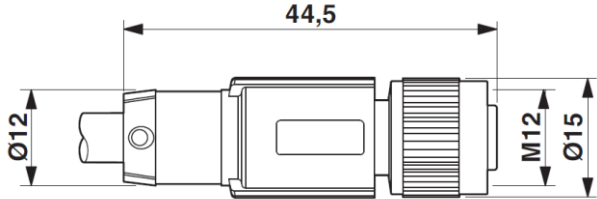
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Dimensional drawing



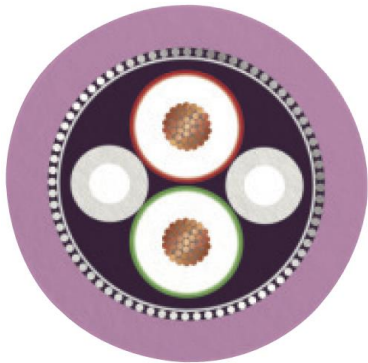
Plug M12x1, straight, shielded

Dimensional drawing

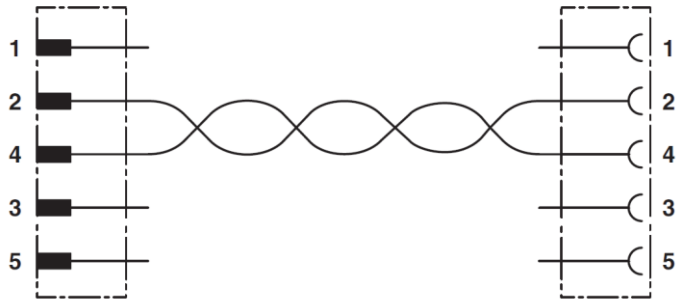


Jack M12x1, straight, shielded

Wire cross section



Circuit diagram



Contact assignment M12-plug and M12-jack

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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