


22260767	<b>DATA SHEET</b>	
Valid from: 17.09.2018	<b>AB-PB-M12MS-(L*) PUR</b>	

## Description

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



## 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)
Cable length of the free cable end	50 mm

## Variation

Material	Description	Length (L*) [m]	Configuration
22260767	AB-PB-M12MS-2,0 PUR	2	straight
22260768	AB-PB-M12MS-5,0 PUR	5	straight
22260769	AB-PB-M12MS-10,0 PUR	10	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) 4 (plug) = RD (B-line)
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## Mechanical properties

### Plug

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

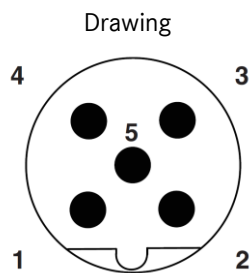
Creator: ERTC1/PDP Released: IVSE1/PDP	Document: DB22260767EN Version: 03	Page 1 of 2
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### Line

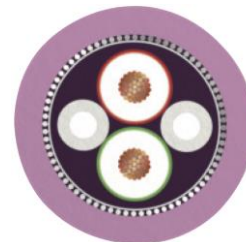
Cable construction	2x AWG24/19
Conductor diameter including isolation	2.55 mm ±0.07 mm
Cable outer diameter	7.8 mm ±0.2 mm
Core identification	red, green
Sheath colour	Violet, similar to RAL 4001
Shielding	Plastic Laminated alufoil, braid of tinned copper wires
Bending radius	80 mm
Number of bending cycle	5000000
Traveling distance	4,5 m
Travel speed	3 m/s
Acceleration	3 m/s <sup>2</sup>
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

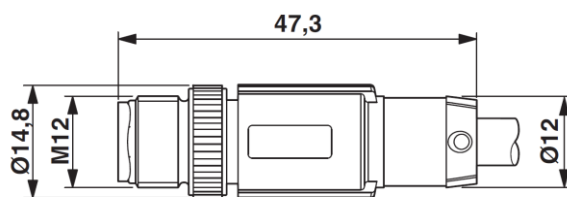


M12-plug, 5-pins, B-coding

Wire cross section

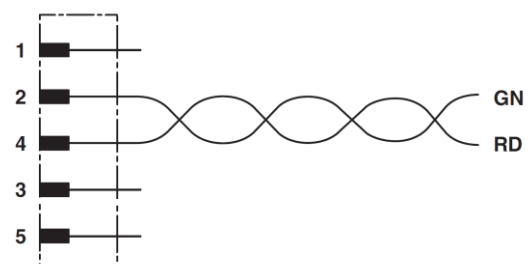


Dimensional drawing



Plug M12x1, straight, shielded

Circuit diagram



Contact assignment the M12 connector

### 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.

Creator: ERTC1/PDP Released: IVSE1/PDP	Document: DB22260767EN Version: 03	Page 2 of 2
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