

## Bus system cable - VS-M12MS-M12FS-915-LI/10,0 - 1401272

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Bus system cable, PROFIBUS, 2-pos., PUR halogen-free green, shielded, straight plug M12 B-coded on straight socket M12 B-coded, length: 10 m

As shown in the illustration but with a green conductor



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	25 pc
GTIN	 4 046356 544191
GTIN	4046356544191

### Technical data

#### Dimensions

Length of cable	10 m
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#### Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (cable, flexible installation)

#### General data

Rated current at 40°C	4 A
Rated voltage	48 V AC
	60 V DC
Number of positions	2
Overvoltage category	II

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## Technical data

### General data

Degree of pollution	3
Alternative short product description	Bus system cable
Contact material	CuSn
Contact carrier material	PA 6.6
Contact surface material	Ni/Au

### Standards and Regulations

Flammability rating according to UL 94	V0
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### Cable

Cable type	PROFIBUS
Cable type (abbreviation)	915
Signal type/category	PROFIBUS
Cable structure	1x2xAWG24/19
Conductor cross section	2x 0.25 mm <sup>2</sup>
AWG signal line	24
Conductor structure signal line	19x 0.14 mm
Core diameter including insulation	2.56 mm
Wire colors	Red, green
Overall twist	2 wires, twisted
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	70 %
External sheath, color	blue
Outer sheath thickness	approx. 0.8 mm
External cable diameter D	8 mm ±0.4 mm
Minimum bending radius, flexible installation	5 x D
Number of bending cycles	3000000
Bending radius	60 mm
Acceleration	4 m/s <sup>2</sup>
Tensile strength GRP	≤ 100 N
Cable weight	74 kg/km
Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	Foamed PE
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 16 GΩ*km
Working capacitance	28 nF (at 1 kHz)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	3600 V DC
Flame resistance	according to IEC 60332-1
Resistance to oil	Resistant to mineral oils and grease
Ambient temperature (operation)	-40 °C ... 80 °C (cable, flexible installation)

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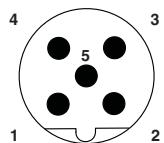
## Technical data

### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

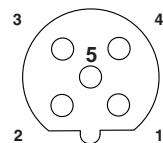
## Drawings

Schematic diagram



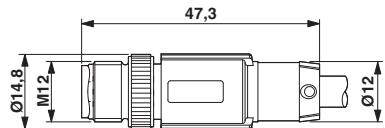
Pin assignment M12 male connector, 5-pos., B-coded, male side

Schematic diagram



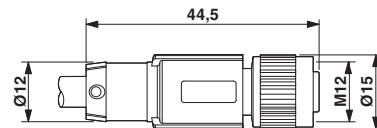
Pin assignment M12 socket, 5-pos., B-coded, female side

Dimensional drawing



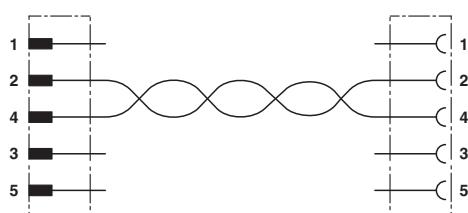
Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

Circuit diagram



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