

## Bus system cable - SAC-2P-M12MSB/ 5,0-915 - 1525487

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Bus system cable, PROFIBUS, 2-position, PUR/PVC, blue, shielded, Plug straight M12, B-coded, on free cable end, Cable length: 5 m



### Key commercial data

Packing unit	1 pc
Custom tariff number	85444290
Country of origin	Poland

### Technical data

#### Dimensions

Length of cable	5 m
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#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
Degree of protection	IP65
	IP67

#### General

Rated current at 40°C	4 A
Rated voltage	100 V
Number of positions	2
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	B - inverse
Signal type/category	PROFIBUS
Status display	No
Surge voltage category	II
Pollution degree	3

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### Technical data

#### General

Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)

#### Material

Inflammability class according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated

#### Pin assignment

Position = wire color (signal) = position (optional)	2 (Plug) = GN (A cable)
	4 (Plug) = RD (B cable)

#### Cable

Cable type	PROFIBUS
Cable type (abbreviation)	915
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>
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

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### Technical data

#### Cable

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

### Classifications

#### eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27061801

#### ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

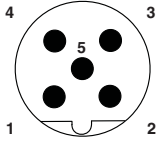
#### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

### Drawings

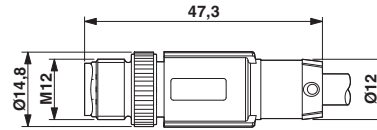
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Schematic diagram



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

Dimensioned drawing



Plug, M12 x 1, straight, shielded

Circuit diagram

