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Bus system cable - SAC-2P-M12MSB/15,0-915

1525526

https://www.phoenixcontact.com/gb/products/1525526

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Bus system cable, PROFIBUS, 2-position, PUR/PVC, blue, shielded, Plug straight M12, coding: B, on free cable end, cable length: 15 m

Commercial Data

Item number	1525526
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	BF1CKC
Product Key	BF1CKC
GTIN	4017918950187
Weight per Piece (including packing)	1,161 g
Weight per Piece (excluding packing)	1,128.3 g
Customs tariff number	85444290
Country of origin	PL

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Technical Data

Product properties

Product type	Data cable preassembled
Number of positions	2
Application	Bus system
No. of cable outlets	1
Shielded	yes
Coding	B - inverse

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

Bus system	PROFIBUS
Signal type/category	PROFIBUS

LED signaling

Status display	No
Status display present	No

Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A
Transmission medium	Copper

Material specifications

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

Connection data

Pin assignment

Contact | Color (signal designation) | Contact (optional)	2 (Plug) = GN (A cable)
	4 (Plug) = RD (B cable)

Connector

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Insertion/withdrawal cycles	≥ 100

Header 1

Head design	Plug
Head cable outlet	straight
Head thread type	M12
Coding	B

Head 2

Head design	free cable end

Cable / line

Cable length	15 m
Cable weight	74 kg/km
Number of positions	2
Shielded	yes
Cable type	PROFIBUS [915]
Conductor structure signal line	19x 0.14 mm
AWG signal line	24
Conductor cross section	2x 0.25 mm²
Wire diameter incl. insulation	2.56 mm
External cable diameter	8 mm ±0.4 mm
Outer sheath, material	PUR
External sheath, color	blue
Conductor material	Bare Cu litz wires
Material wire insulation	Foamed PE
Single wire, color	Red, green
Thickness, outer sheath	approx. 0.8 mm
Overall twist	2 wires, twisted
Optical shield covering	70 %
Insulation resistance	≥ 16 GΩ*km
Working capacitance	28 nF (at 1 kHz)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	3600 V DC
Minimum bending radius, flexible installation	5 x D
Max. bending cycles	3000000
Tensile strength	≤ 100 N
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)

Cable structure

Signal type/category	PROFIBUS
Outer sheath, material	PUR
External sheath, color	blue

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Material, inner sheath	PVC

Ambient conditions

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

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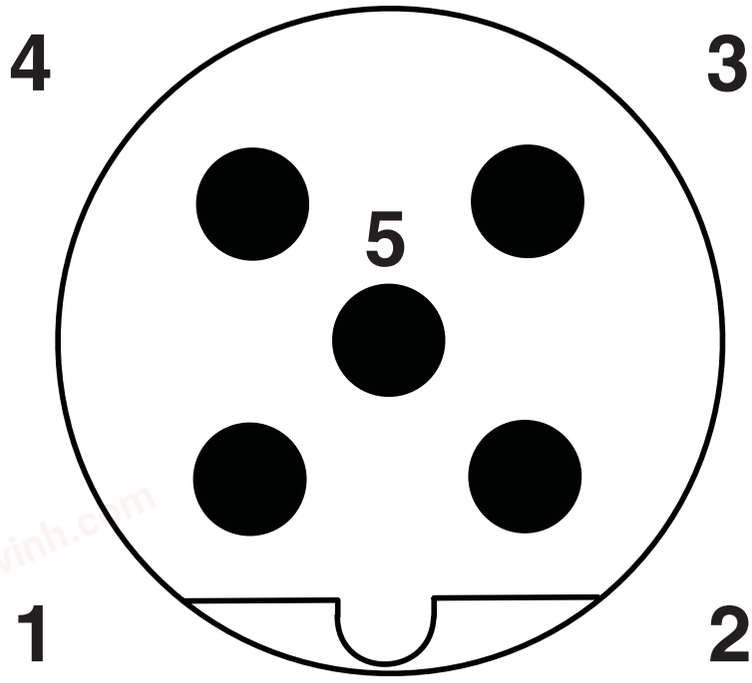
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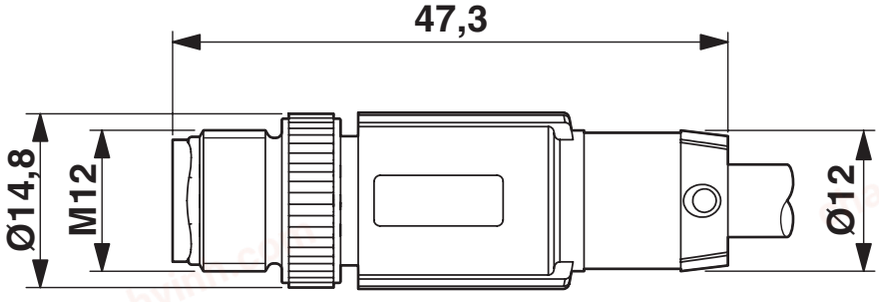
Drawings

Schematic diagram



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

Dimensional drawing



Plug, M12 x 1, straight, shielded

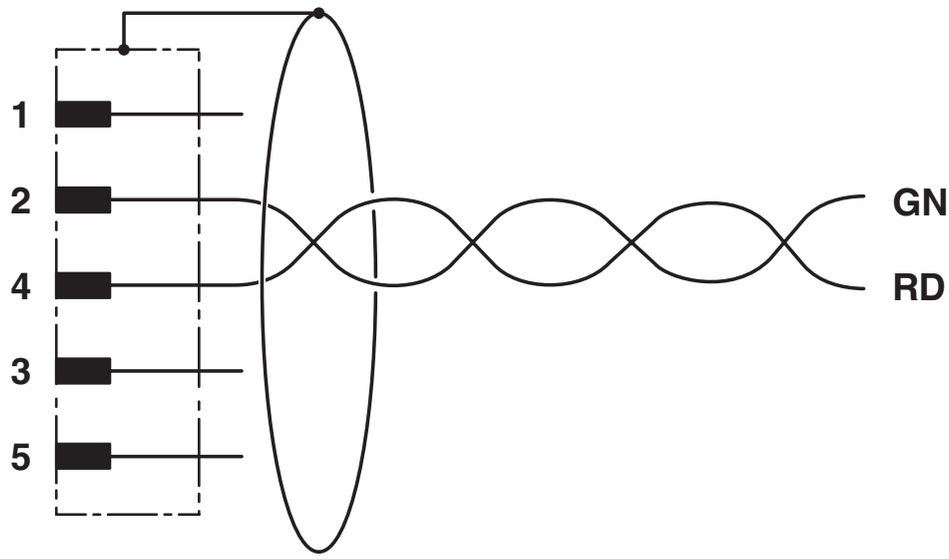
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Circuit diagram



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Approvals

EAC
Approval ID: RU C-DE.BL08.B.00286

EAC
Approval ID: RU D-DE.HB35.B.00387

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Classifications

ECLASS

ECLASS-9.0	27060308
ECLASS-10.0.1	27060308
ECLASS-11.0	27060307

ETIM

ETIM 8.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

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Environmental Product Compliance

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

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