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SAC-2P-M12MSB/2-915/M12FSB VA - Bus system cable

1402380

https://www.phoenixcontact.com/in/products/1402380

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

Commercial data

Item number	1402380
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	BF1
Product key	AF1CJC
GTIN	4046356610841
Weight per piece (including packing)	186.3 g
Weight per piece (excluding packing)	185.9 g
Customs tariff number	85444290
Country of origin	PL

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Technical data

Product properties

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

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

Bus system	PROFIBUS
Signal type/category	PROFIBUS

Signaling

Status display	no
Status display present	No

Electrical properties

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

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Stainless steel

Connection data

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Pin assignment

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

Connector

Connection 1

Type	Plug straight M12
Number of positions	2
Coding type	B (inverse)

Connection 2

Type	Socket straight M12
Number of positions	2
Coding type	B

Cable/line

Cable length	2 m

PROFIBUS [915]

Cable weight	74 kg/km
Number of positions	2
Shielded	yes
Cable type	PROFIBUS [915]
Conductor structure	1x2xAWG24/19
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	8.00 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. 0.80 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
Smallest bending radius, movable installation	40 mm
Dynamic load capacity (bending)	Max. bending cycles: 3000000, Bending radius: 60 mm,

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	Acceleration: 4 m/s²
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)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
	IP69K
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

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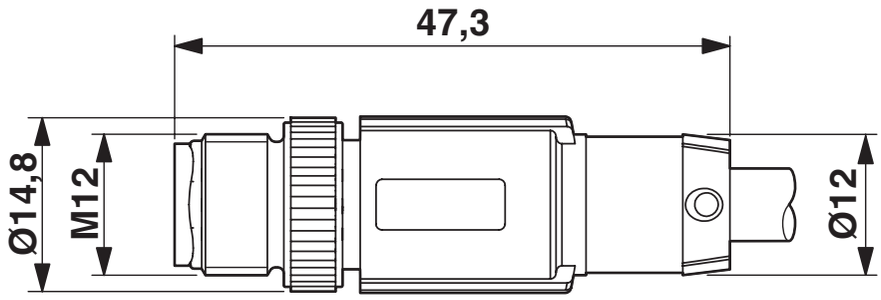
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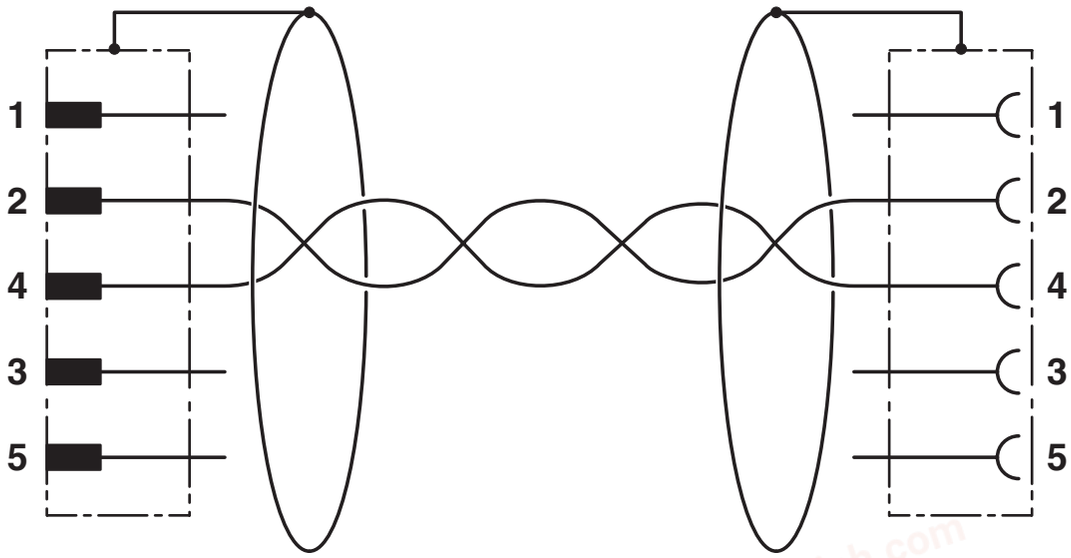
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Circuit diagram



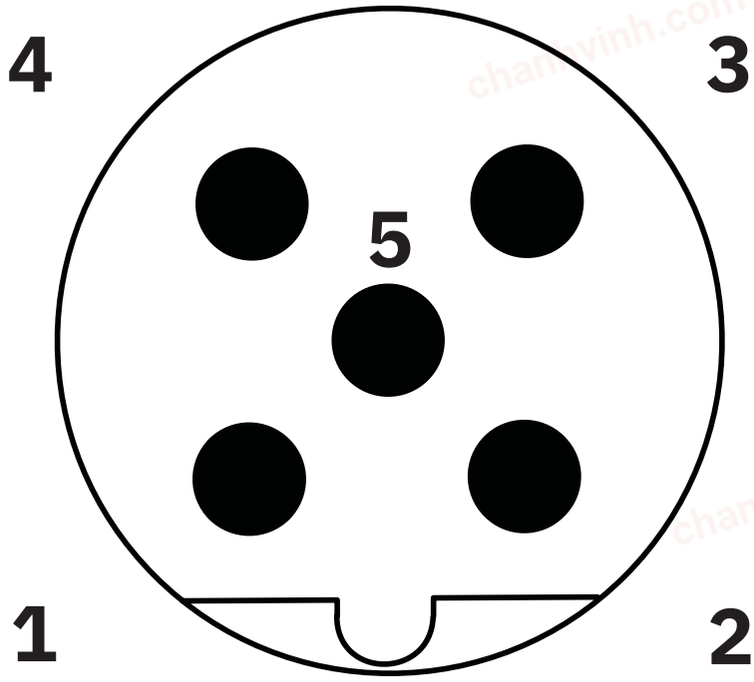
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Schematic diagram



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

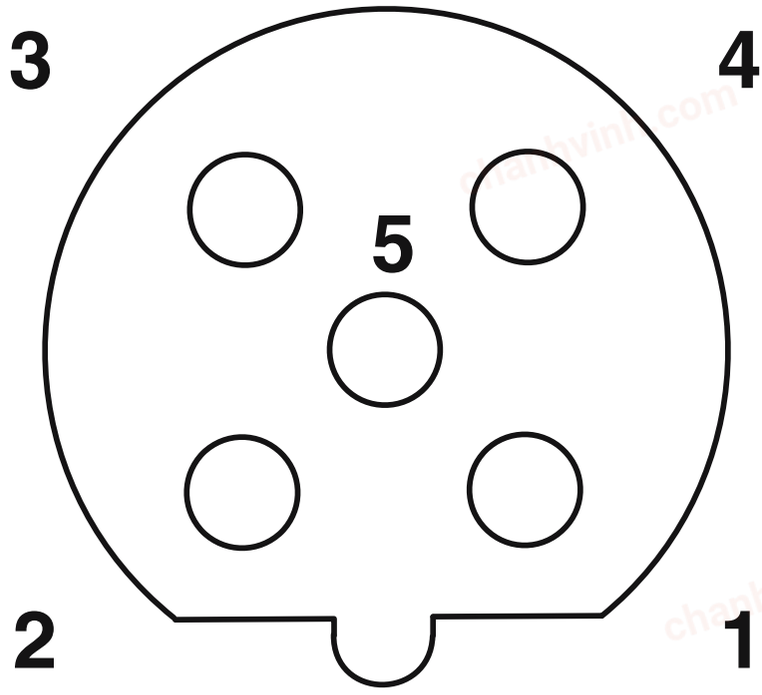
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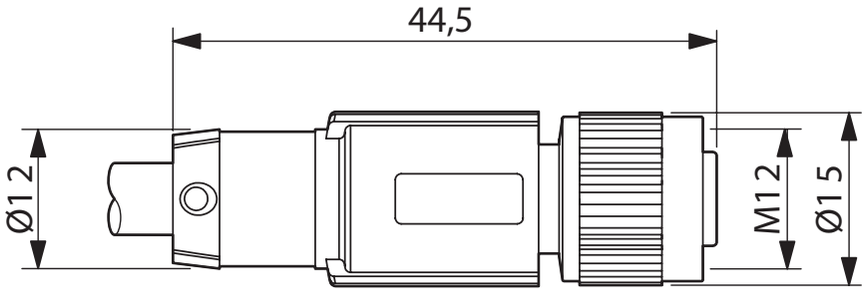
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Schematic diagram



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

Dimensional drawing



M12 x 1 socket, straight, shielded

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Classifications

ECLASS

ECLASS-11.0	27060307
ECLASS-12.0	27060307
ECLASS-13.0	27060307

ETIM

ETIM 9.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

EF3.0 Climate Change

CO2e kg	2.653 kg CO2e

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