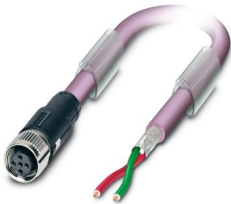


1518083
<https://www.phoenixcontact.com/gb/products/1518083>

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Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, red lilac RAL 4001, shielded, free cable end, on Socket straight M12 SPEEDCON, coding: B, cable length: 10 m

Commercial data

Item number	1518083
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF1CKC
Product key	BF1CKC
Catalog page	Page 198 (C-6-2019)
GTIN	4017918968205
Weight per piece (including packing)	607.5 g
Weight per piece (excluding packing)	610 g
Customs tariff number	85444290
Country of origin	PL

SAC-2P-10,0-910/FSB SCO - Bus system cable



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Technical data

Product properties

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

Data management status

Article revision	07
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Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

Bus system	PROFIBUS
Signal type/category	PROFIBUS, 12 Mbps (max. 100 m)

Signaling

Status display	no
Status display present	No

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A
Transmission medium	Copper

Material specifications

Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

Connection data

Pin assignment

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

Connector

Connection 1

Type

free cable end

Connection 2

Type

free cable end

Cable/line

Cable length

10 m

PROFIBUS [910]

Dimensional drawing



Cable weight

90 kg/km

UL AWM Style

21198 (80°C/300 V)

Number of positions

2

Shielded

yes

Cable type

PROFIBUS [910]

Conductor structure

1x2xAWG24/19

Conductor structure signal line

19x 0.13 mm

AWG signal line

24

Conductor cross section

2x 0.25 mm² (Signal line)

Wire diameter incl. insulation

2.55 mm ±0.07 mm

External cable diameter

7.80 mm ±0.2 mm

Outer sheath, material

PUR

External sheath, color

red lilac RAL 4001

Conductor material

Tin-plated Cu litz wires

Material, filler

PP

Material wire insulation

Foam-Skin PP

Single wire, color

red, green

Overall twist

2 cores with 2 fillers to the core

Optical shield covering

85 %

Max. conductor resistance

≤ 78.6 Ω/km

Insulation resistance

≥ 5 GΩ*km

Wave impedance

150 Ω ±10 % (3 MHz ... 20 MHz)

Cable capacity

nom. 30 pF/m

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Nominal voltage, cable	300 V
Test voltage Core/Core	1500 V (50 Hz, 1 min.)
Test voltage Core/Shield	1500.00 V (50 Hz, 1 min.)
Smallest bending radius, fixed installation	40 mm
Smallest bending radius, movable installation	65 mm
Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 65 mm, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s ² , Ambient temperature: -20 °C ... 60 °C
	Max. bending cycles: 5000000, Bending radius: 80 mm, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s ² , Ambient temperature: -20 °C ... 60 °C
Shield attenuation	≤ 0.049 dB/m (at 16 MHz)
Halogen-free	in accordance with DIN VDE 0472 part 815
	according to IEC 60754-1
Flame resistance	UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1)
	UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)
	IEC 60332-1-2
Other resistance	Low adhesion
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-30 °C ... 70 °C (Cable, flexible installation)
	-20 °C ... 60 °C (for installation)
	-20 °C ... 60 °C (cable, drag chain applications)

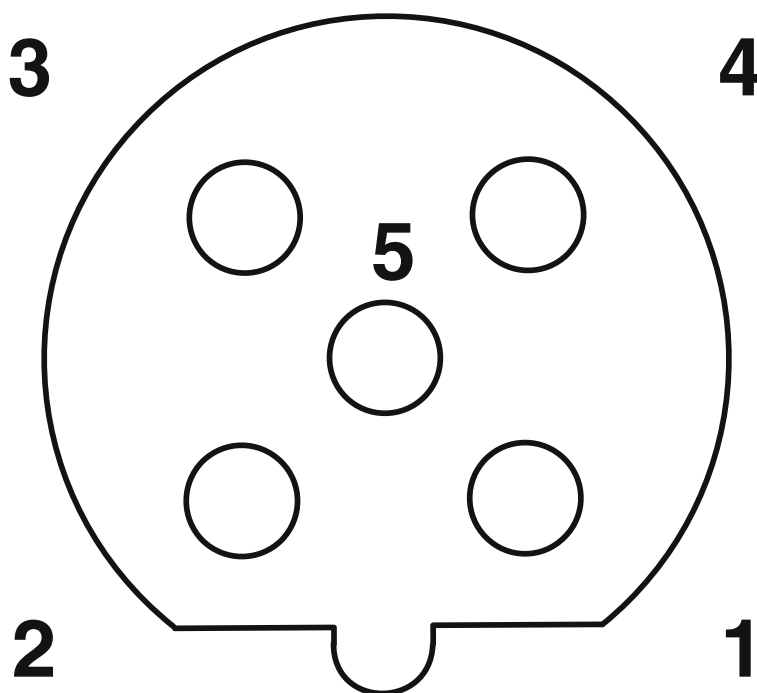
Environmental and real-life conditions

Ambient conditions

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

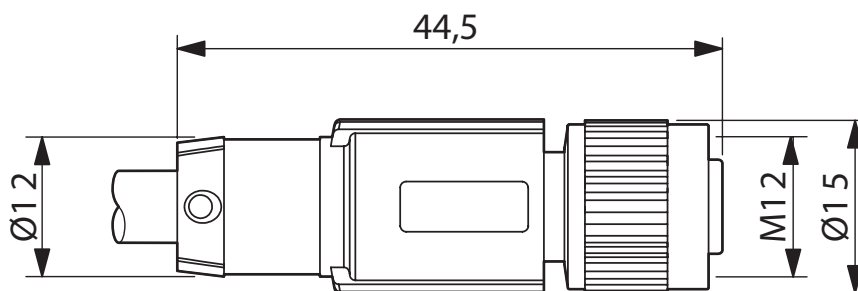
Drawings

Schematic diagram



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

Dimensional drawing



M12 x 1 socket, straight, shielded

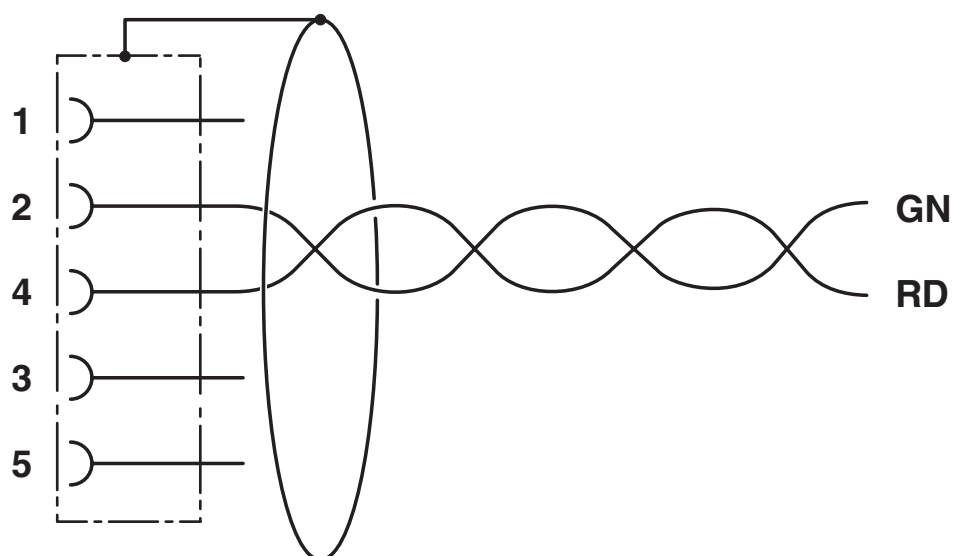
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Circuit diagram



SAC-2P-10,0-910/FSB SCO - Bus system cable



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1518083>

	UL Listed Approval ID: FILE E 221474			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	300 V	4 A	-	-

	cUL Listed Approval ID: FILE E 221474			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	300 V	4 A	-	-

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

cULus Listed				
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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001855
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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	5.863 kg CO2e

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