chanhvinh.com

SAC-2P-MSB/ 0,3-910/FSB SCO - Bus system cable

1518106

https://www.phoenixcontact.com/gb/products/1518106

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12 SPEEDCON, coding: B, on Socket straight M12 SPEEDCON, coding: B, cable length: 0.3 m

Commercial data

Item number	1518106
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF1CKC
Product key	BF1CKC
Catalog page	Page 198 (C-6-2019)
GTIN	4017918968229
Weight per piece (including packing)	58.2 g
Weight per piece (excluding packing)	55.9 g
Customs tariff number	85444290
Country of origin	PL

chanhvinh.com

SAC-2P-MSB/ 0,3-910/FSB SCO - Bus system cable

1518106

https://www.phoenixcontact.com/gb/products/1518106

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

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	≥ 100 MΩ
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 (Plug) | GN (A cable) | 2 (Socket)
	4 (Plug) | RD (B cable) | 4 (Socket)

Connector

chanhvinh.com

SAC-2P-MSB/ 0,3-910/FSB SCO - Bus system cable

1518106

https://www.phoenixcontact.com/gb/products/1518106

Connection 1

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

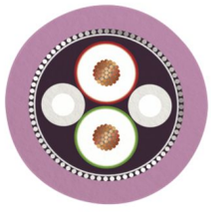
Connection 2

Type	Socket straight M12 SPEEDCON
Number of positions	2
Locking type	SPEEDCON
Coding type	B

Cable/line

Cable length	0.3 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

SAC-2P-MSB/ 0,3-910/FSB SCO - Bus system cable

1518106

https://www.phoenixcontact.com/gb/products/1518106

Insulation resistance	≥ 5 GΩ*km
Wave impedance	150 Ω ±10 % (3 MHz ... 20 MHz)
Cable capacity	nom. 30 pF/m
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/s², 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/s², 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)

chanhvinh.com

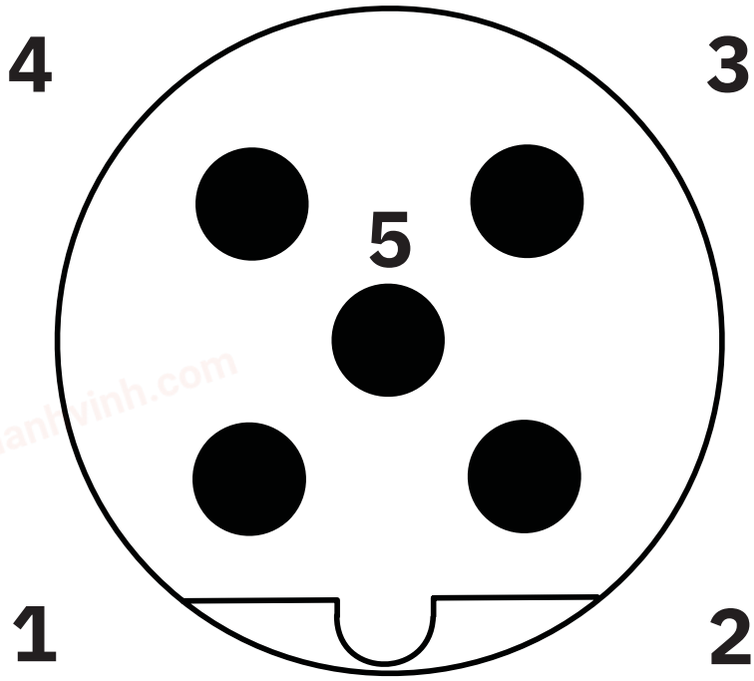
SAC-2P-MSB/ 0,3-910/FSB SCO - Bus system cable

1518106

https://www.phoenixcontact.com/gb/products/1518106

Drawings

Schematic diagram



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

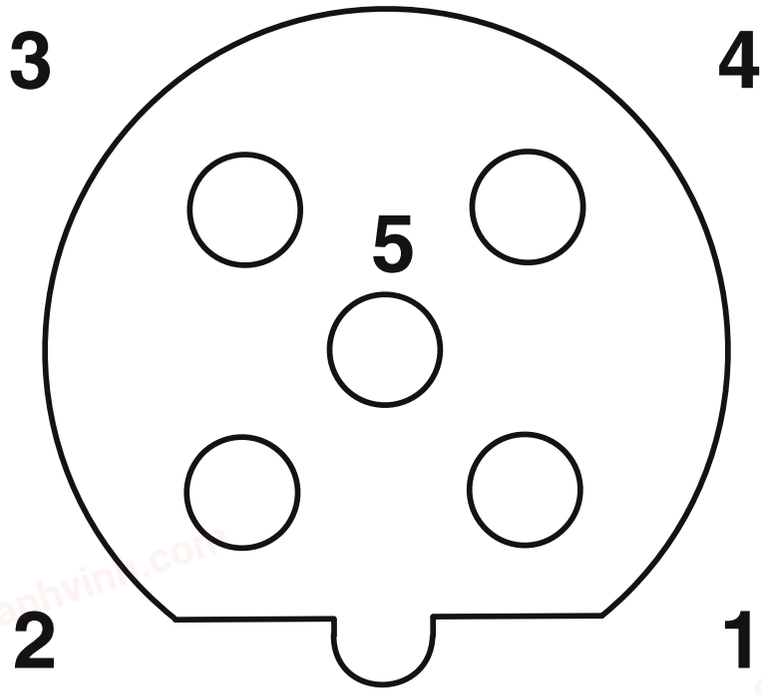
chanhvinh.com

SAC-2P-MSB/ 0,3-910/FSB SCO - Bus system cable

1518106

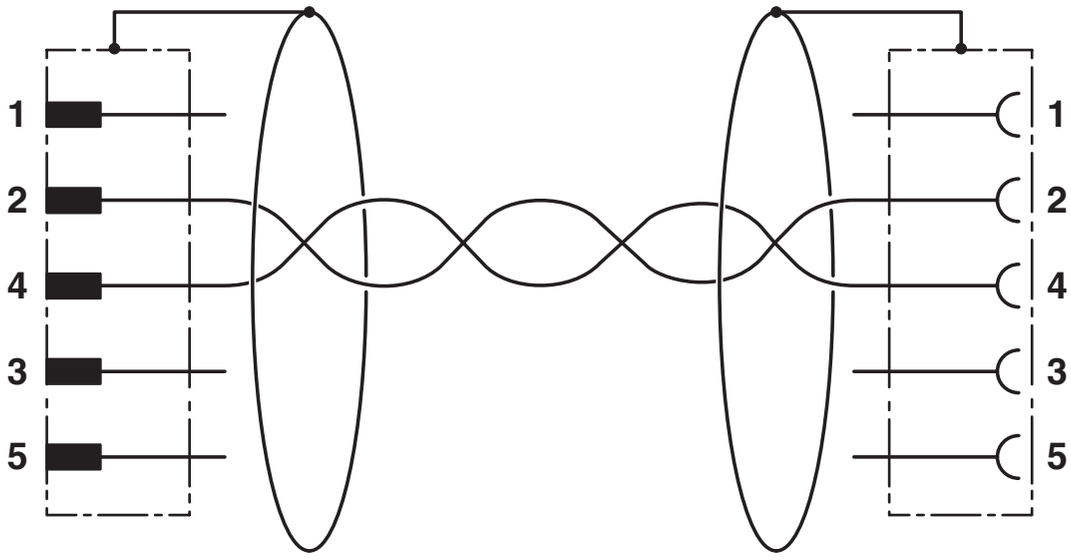
https://www.phoenixcontact.com/gb/products/1518106

Schematic diagram



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

Circuit diagram



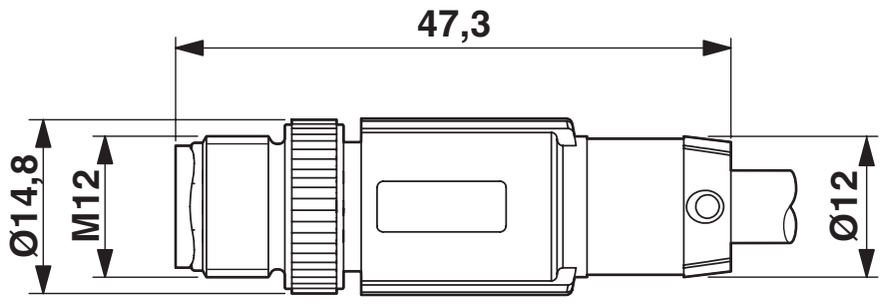
chanhvinh.com

SAC-2P-MSB/ 0,3-910/FSB SCO - Bus system cable

1518106

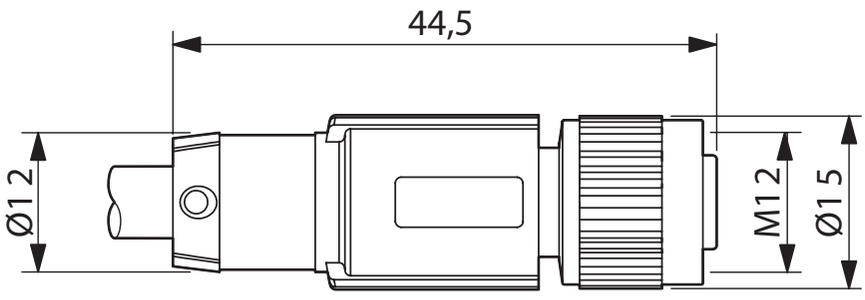
https://www.phoenixcontact.com/gb/products/1518106

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

chanhvinh.com

SAC-2P-MSB/ 0,3-910/FSB SCO - Bus system cable

1518106

https://www.phoenixcontact.com/gb/products/1518106

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1518106

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

chanhvinh.com

SAC-2P-MSB/ 0,3-910/FSB SCO - Bus system cable

1518106

https://www.phoenixcontact.com/gb/products/1518106

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

chanhvinh.com

SAC-2P-MSB/ 0,3-910/FSB SCO - Bus system cable

1518106

https://www.phoenixcontact.com/gb/products/1518106

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	0.447 kg CO2e

Phoenix Contact 2024 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk