

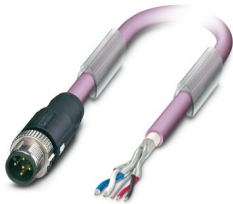
SAC-5P-MS/15,0-920 SCO - Bus system cable



1518203

<https://www.phoenixcontact.com/us/products/1518203>

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, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12 SPEEDCON, coding: A, on free cable end, cable length: 15 m

Commercial data

Item number	1518203
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF04
Product key	AF1CKD
GTIN	4017918968328
Weight per piece (including packing)	870 g
Weight per piece (excluding packing)	866.6 g
Customs tariff number	85444290
Country of origin	PL

SAC-5P-MS/15,0-920 SCO - Bus system cable



1518203

<https://www.phoenixcontact.com/us/products/1518203>

Technical data

Product properties

Product type	Data cable preassembled
Application	Standard
Sensor type	CANopen®
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

Bus system	CANopen®/DeviceNet™
Signal type/category	CANopen®
	DeviceNet™

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

Flammability rating according to UL 94	HB
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

Connection assignment

Contact Color (signal designation) Contact (optional)	1 (Plug) SR (shield)
	2 (Plug) RD (V+)
	3 (Plug) BK (V-)

SAC-5P-MS/15,0-920 SCO - Bus system cable



1518203

<https://www.phoenixcontact.com/us/products/1518203>

	4 (Plug) WH (CAN_H)
	5 (Plug) BU (CAN_L)

Connector

Connection 1

Type	Plug straight M12 SPEEDCON
Number of positions	5
Locking type	SPEEDCON
Coding type	A (Standard)
Ambient temperature (operation)	-25 °C ... 90 °C

Connection 2

Type	free cable end
------	----------------

Cable/line

Cable length	15 m
--------------	------

CANopen®/DeviceNet™, PUR, violet [920]

Dimensional drawing		
UL AWM Style	21198 (80°C/300 V)	
Number of positions	4	
Shielded	yes	
Cable type	CANopen®/DeviceNet™, PUR, violet [920]	
Conductor structure	2xAWG24/19+2xAWG22/19	
AWG signal line	24	
AWG power supply	22	
Conductor cross section	2x 0.25 mm² (Data cable)	
	2x 0.34 mm² (Power supply)	
	1x 0.34 mm² (Drain wire)	
Wire diameter incl. insulation	1.95 mm ±0.05 mm (Data cable)	
	1.4 mm ±0.05 mm (Power supply)	
External cable diameter	6.70 mm ±0.3 mm	
Outer sheath, material	PUR	
External sheath, color	red lilac RAL 4001	
Conductor material	Tin-plated Cu litz wires	
Material wire insulation	Foamed PE (Data cable)	
	PE (Power supply)	

SAC-5P-MS/15,0-920 SCO - Bus system cable



1518203

<https://www.phoenixcontact.com/us/products/1518203>

Single wire, color	red-black, blue-white
Twisted pairs	2 cores to the pair
Overall twist	2 pairs around a drain wire in the center to the core
Optical shield covering	80 %
Insulation resistance	≥ 5 GΩ*km (Data cable)
	≥ 5 GΩ*km (Power supply)
Wave impedance	120 Ω ±10 % (with 1 MHz)
Nominal voltage, cable	≤ 300 V (Peak value, not for high-power applications)
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 70 mm, Bending radius: 15 x D, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s², Ambient temperature: -20 °C ... 60 °C
Shield attenuation	≤ 22.9 dB/km (with 1 MHz)
	≤ 16.4 dB/km (At 500 kHz)
	≤ 9.5 dB/km (At 125 kHz)
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
	in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)
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

SAC-5P-MS/15,0-920 SCO - Bus system cable

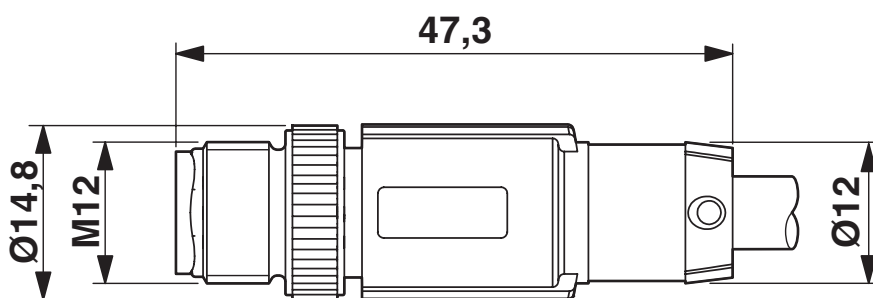
1518203

<https://www.phoenixcontact.com/us/products/1518203>



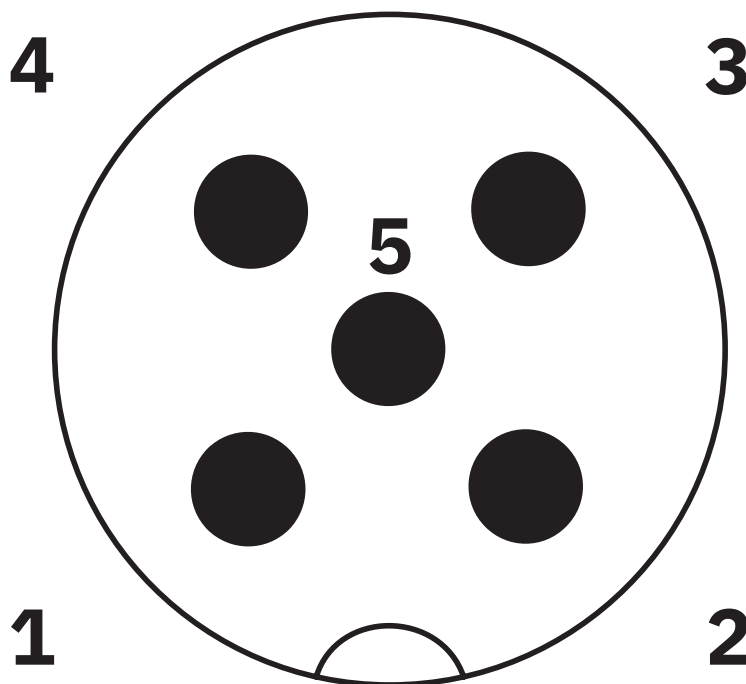
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



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

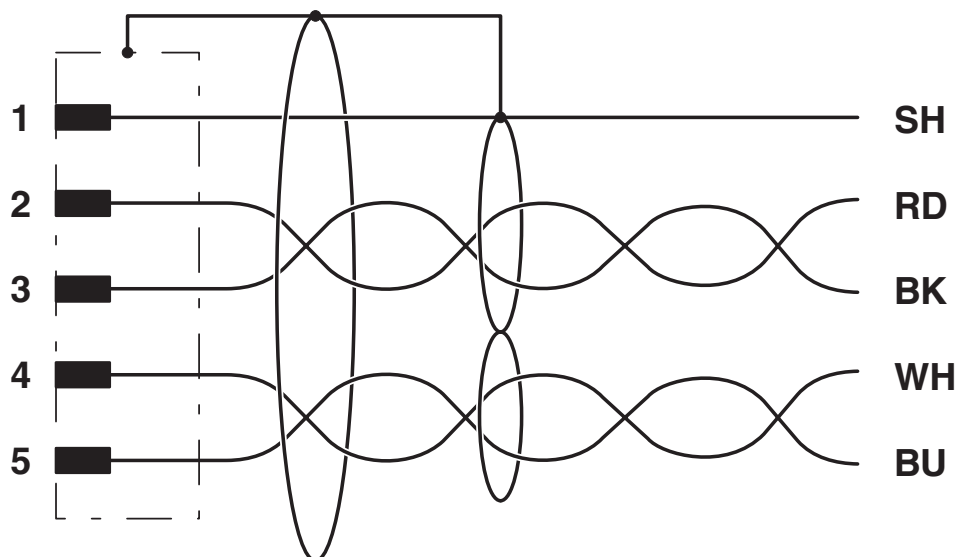
SAC-5P-MS/15,0-920 SCO - Bus system cable

1518203

<https://www.phoenixcontact.com/us/products/1518203>



Circuit diagram



Contact assignment of the M12 plug

SAC-5P-MS/15,0-920 SCO - Bus system cable



1518203

<https://www.phoenixcontact.com/us/products/1518203>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1518203>

UL Listed Approval ID: FILE E 221474				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	125 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
keine				
	125 V	4 A	-	-

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

SAC-5P-MS/15,0-920 SCO - Bus system cable



1518203

<https://www.phoenixcontact.com/us/products/1518203>

Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

ETIM

ETIM 9.0	EC001855
----------	----------

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

SAC-5P-MS/15,0-920 SCO - Bus system cable



1518203

<https://www.phoenixcontact.com/us/products/1518203>

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	3.415 kg CO2e
---------	---------------

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com