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Bus system cable - SAC-5P-M 8MS/15,0-920/M 8FS

1575880

https://www.phoenixcontact.com/gb/products/1575880

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Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M8, on Socket straight M8, cable length: 15 m, Connector unshielded

Commercial Data

Item number	1575880
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF1BDD
Product Key	BF1BDD
Catalog Page	Page 432 (C-2-2019)
GTIN	4046356431569
Weight per Piece (including packing)	900.22 g
Weight per Piece (excluding packing)	900.22 g
Customs tariff number	85444290
Country of origin	PL

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Technical Data

Notes

General	Further products with variable cable lengths can be found in the accessories section

Product properties

Product type	Data cable preassembled
Number of positions	5
Application	Standard
No. of cable outlets	1
Shielded	yes
Coding	B - inverse

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

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

LED signaling

Status display	No

Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I_N	4 A
Transmission medium	Copper

Material specifications

Color Handle area	black
Flammability rating according to UL 94	HB
Sealing material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Cable gland material	Zinc die-cast, nickel-plated

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Connection data

Pin assignment

Contact | Color (signal designation) | Contact (optional)	1 (Plug) = SR (shield) = 1 (Socket)
	2 (Plug) = RD (V+) = 2 (Socket)
	4 (Plug) = BK (V-) = 4 (Socket)
	3 (Plug) = WH (CAN_H) = 3 (Socket)
	5 (Plug) = BU (CAN_L) = 5 (Socket)

Connector

Header 1

Head design	Plug
Head cable outlet	straight
Head thread type	M8

Head 2

Head design	Socket
Head cable outlet	straight
Head thread type	M8

Cable / line

Cable length	15 m
Cable weight	90 kg/km
UL AWM Style	21198 (80°C/300 V)
Number of positions	4
Shielded	yes
Cable type	CANopen®/DeviceNet™, PUR, violet [920]
Conductor structure signal line	19x 0.13 mm
AWG signal line	24
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	6.7 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)
Single wire, color	red-black, blue-white
Twisted pairs	2 cores to the pair
Type of pair shielding	Plastic-coated aluminum foil, aluminum side outside
Overall twist	2 pairs around a drain wire in the center to the core

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Optical shield covering	80 %
Insulation resistance	≥ 5 GΩ*km (Data cable)
	≥ 5 GΩ*km (Power supply)
Loop resistance	≤ 181.80 Ω/km (Data cable)
	≤ 114.80 Ω/km (Power supply)
Wave impedance	120 Ω ±10 % (with 1 MHz)
Cable capacity	nom. 40 nF/km (Data cable)
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 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Max. bending cycles	5000000
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	IEC 60332-1-2
	in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)
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)

Cable structure

Cable type	CANopen®/DeviceNet™, PUR, violet
Signal type/category	CANopen®
	DeviceNet™
Outer sheath, material	PUR
External sheath, color	red lilac RAL 4001

Ambient conditions

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

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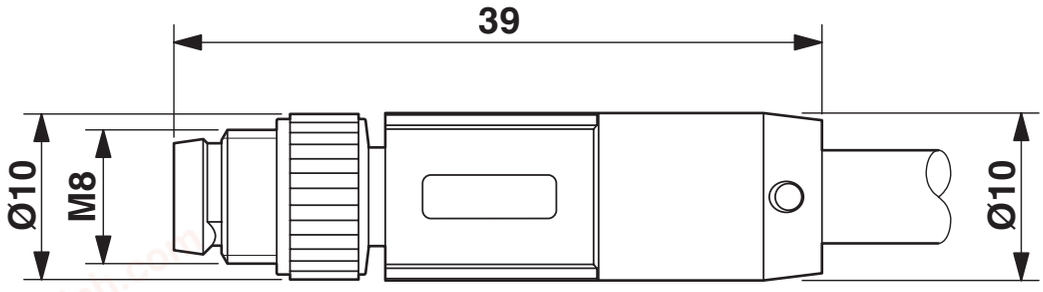
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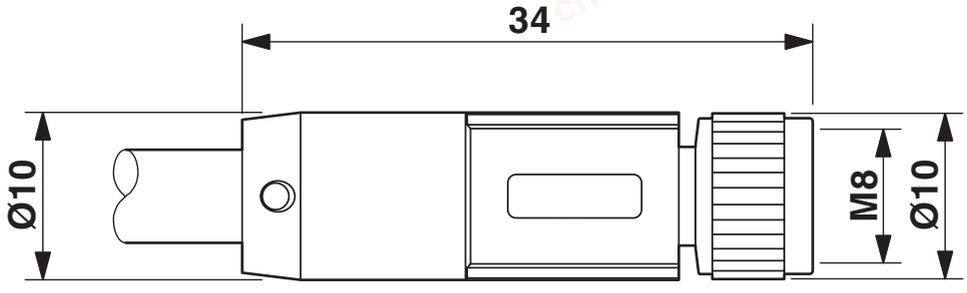
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Drawings

Dimensional drawing



Dimensional drawing



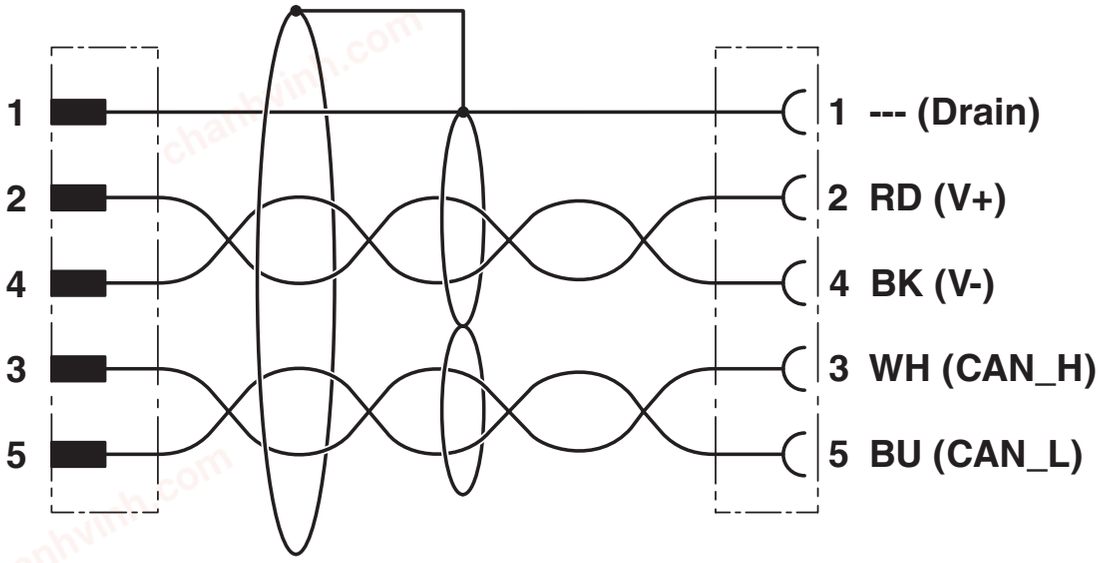
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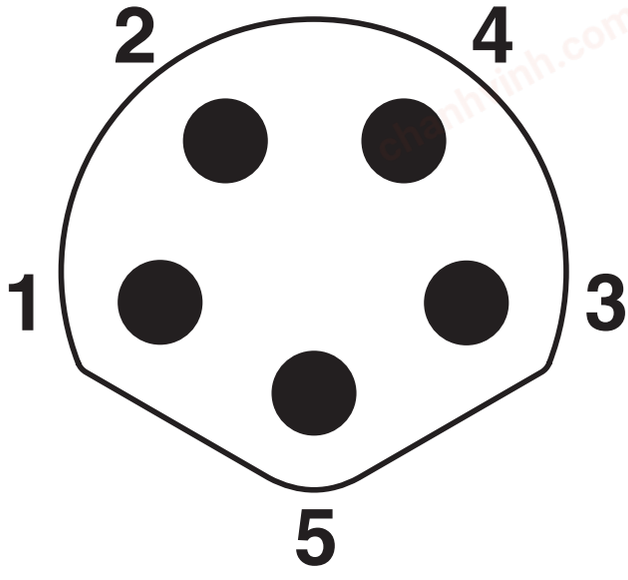
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Circuit diagram



Schematic diagram



Pin assignment, pin side, M8, 5-pos., B-coded

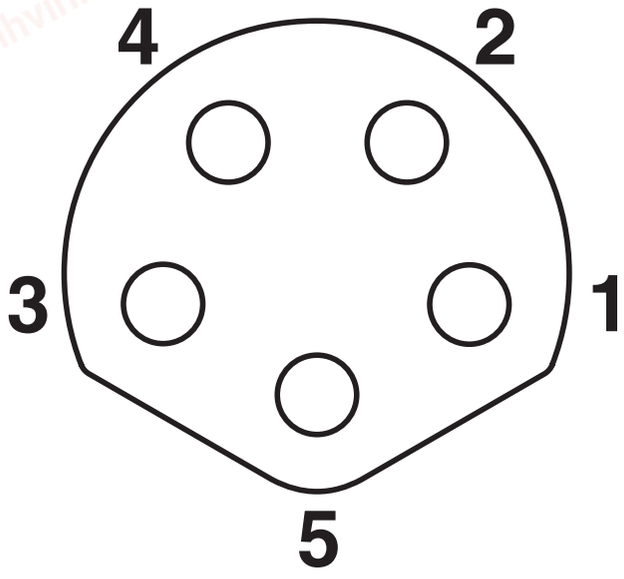
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Schematic diagram



Pin assignment, socket side, M8, 5-pos., B-coded

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Bus system cable - SAC-5P-M 8MS/15,0-920/M 8FS

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Approvals

UL Listed
Approval ID: FILE E 221474

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	30 V	3 A	-	-

cUL Listed
Approval ID: FILE E 221474

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	30 V	3 A	-	-

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

cULus Listed

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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

REACh SVHC	Lead 7439-92-1

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer’s declaration available under “Downloads”

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Accessories

Termination resistor

Termination resistor - SAC-5P-M 8MS DN TR - 1435988

https://www.phoenixcontact.com/gb/products/1435988



Termination resistor, DeviceNet™, M8, 5-pos.

Torque screwdriver

Torque screwdriver - TSD 02 SAC - 1208487

https://www.phoenixcontact.com/gb/products/1208487



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

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Bus system cable

Bus system cable - SAC-5P-M 8MS-M 8FS/920/... - 1575893

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Tool

Tool - SAC BIT M8-D10 - 1208461

https://www.phoenixcontact.com/gb/products/1208461



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 10 mm, for 4 mm hexagonal drive

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Bus system cable - SAC-5P-M 8MS/15,0-920/M 8FS

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Bus system cable

Bus system cable - SAC-5P-M 8MR-M 8FS/920/... - 1575932

https://www.phoenixcontact.com/gb/products/1575932



Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug angled M8, on Socket straight M8, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

Sealing cap

Sealing cap - PROT-M 8 FS-PA-CHAIN - 1430857

https://www.phoenixcontact.com/gb/products/1430857

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 plugs



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Bus system cable - SAC-5P-M 8MS/15,0-920/M 8FS

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Bus system cable

Bus system cable - SAC-5P-M 8MR-M 8FR/920/... - 1575945

https://www.phoenixcontact.com/gb/products/1575945



Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug angled M8, on Socket angled M8, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

Screw plug

Screw plug - PROT-M 8 MS-PA-CHAIN - 1430860

https://www.phoenixcontact.com/gb/products/1430860

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 sockets



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Bus system cable - SAC-5P-M 8MS/15,0-920/M 8FS

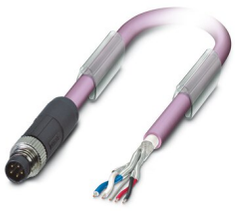
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Bus system cable

Bus system cable - SAC-5P-M 8MS/920/... - 1575767

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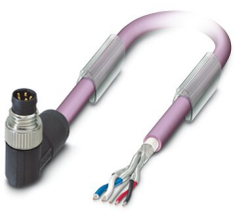


Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M8, on free cable end, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

Bus system cable

Bus system cable - SAC-5P-M 8MR/920/... - 1575903

https://www.phoenixcontact.com/gb/products/1575903



Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug angled M8, on free cable end, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

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Bus system cable

Bus system cable - SAC-5P-M 8FS/920/... - 1575819

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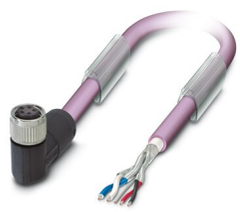


Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, free cable end, on Socket straight M8, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

Bus system cable

Bus system cable - SAC-5P-M 8FR/920/... - 1575916

https://www.phoenixcontact.com/gb/products/1575916



Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, free cable end, on Socket angled M8, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

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