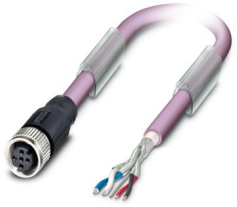
SAC-5P-10,0-927/M12FS VA - Bus system cable

1402958

https://www.phoenixcontact.com/us/products/1402958

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As in the figure, but with a black cable

Bus system cable, CANopen®, DeviceNet™, 5-position, PVC, black, shielded, free cable end, on Socket straight M12, coding: A, cable length: 10 m

Commercial data

Item number	1402958
Packing unit	1 pc
Minimum order quantity	50 pc
Sales key	BF04
Product key	AF1CDD
GTIN	4046356637473
Weight per piece (including packing)	946.8 g
Weight per piece (excluding packing)	879 g
Customs tariff number	85444290
Country of origin	PL

Technical data

Product properties

Product type	Data cable preassembled
Number of positions	5
No. of cable outlets	1
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

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

Electrical properties

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

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Material specifications

Flammability rating according to UL 94	HB
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	Stainless steel

Connector

Connection 1

Type	free cable end

Connection 2

Type	Socket straight M12
Number of positions	5
Coding type	A (Standard)

Cable/line

Cable length	10 m

CANopen®/DeviceNet™, PVC, black [927]

Cable weight	83 kg/km
UL AWM Style	2464 (80°C/300 V)
Number of positions	4
Shielded	yes
Cable type	CANopen®/DeviceNet™, PVC, black [927]
Signal runtime	4.46 ns/m
Conductor structure signal line	44x 0.10 mm
AWG signal line	22
Conductor structure, voltage supply	44x 0.10 mm
AWG power supply	22
Conductor cross-section	2x 0.34 mm² (Signal line)
	2x 0.34 mm² (Power supply)
	1x 0.38 mm² (Drain wire)
Wire diameter incl. insulation	2.55 mm (Signal line)
	1.37 mm (Power supply)
External cable diameter	8.30 mm ±0.3 mm
Outer sheath, material	PVC
External sheath, color	black
Conductor material	Tin-plated Cu litz wires
Material wire insulation	Foamed PP (Signal line)
	PVC (Power supply)
Single wire, color	red-black, blue-white
Thickness, insulation	≥ 0.30 mm (Wire insulation power supply)
Thickness, outer sheath	≥ 1.00 mm
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	2 pairs with filler elements, around a drain wire in the center to the core
Optical shield covering	85 %
Max. conductor resistance	≤ 56 Ω/km
Insulation resistance	≥ 20 MΩ*km
Wave impedance	120 Ω ±12 Ω (f = 1 MHz)
Working capacitance	approx. 39.8 nF (Signal line, line-line)
	≤ 4000 pF (Signal line, line-shield)
Nominal voltage, cable	≤ 300 V
Test voltage	2000 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	34 mm
Smallest bending radius, movable installation	67 mm

Flame resistance	in acc. with UL 1581, section 1061
Ambient temperature (operation)	-30 °C ... 80 °C

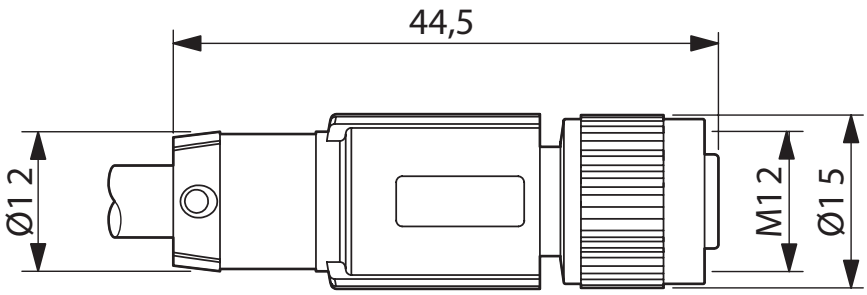
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67

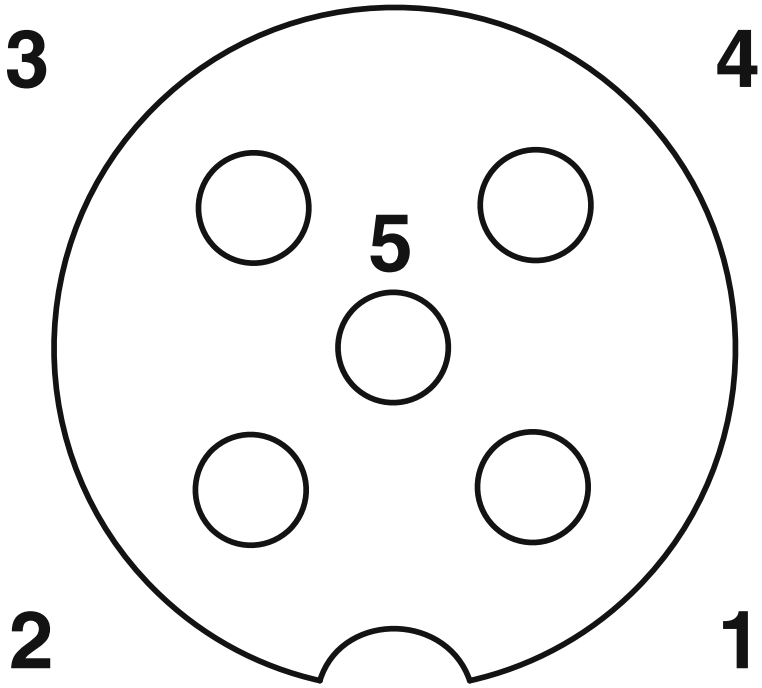
Drawings

Dimensional drawing



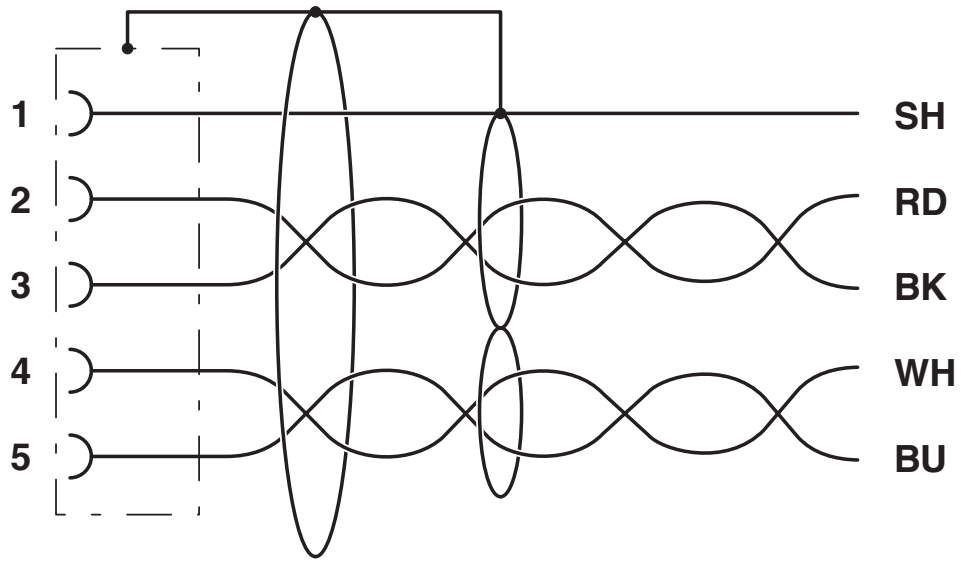
M12 x 1 socket, straight, shielded

Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

Circuit diagram



Contact assignment of the M12 socket

Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

ETIM

ETIM 10.0	EC002599

UNSPSC

UNSPSC 21.0	26121600

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%

EF3.1 Climate Change

CO2e kg	13.279 kg CO2e

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