

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



1402958

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

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

As in the figure, but with a black cable

## 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

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## 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 <sub>N</sub>	48 V AC 60 V DC
Nominal current I <sub>N</sub>	4 A

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	≥ 100
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### 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
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#### Connection 2

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

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## 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 mm <sup>2</sup> (Signal line) 2x 0.34 mm <sup>2</sup> (Power supply) 1x 0.38 mm <sup>2</sup> (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

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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

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## Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Schematic diagram



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

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Circuit diagram



Contact assignment of the M12 socket

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## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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