

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 |

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) |

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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 ² (Signal line) 2x 0.34 mm ² (Power supply) 1x 0.38 mm ² (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 |
|---|--------------------|

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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