

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



1518290

<https://www.phoenixcontact.com/us/products/1518290>

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Bus system cable, CANopen[®], DeviceNet[™], 5-position halogen-free, shielded, Plug straight M12, coding: A SPEEDCON, on Socket straight M12, coding: A SPEEDCON, cable length: 5 m

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 1518290 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF04 |
| Product key | BF1CKD |
| Catalog page | Page 433 (C-2-2017) |
| GTIN | 4017918968410 |
| Weight per piece (including packing) | 322.5 g |
| Weight per piece (excluding packing) | 322.5 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|----------------------|-------------------------|
| Product type | Data cable preassembled |
| Sensor type | CANopen® |
| Number of positions | 5 |
| Application | Standard |
| 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

| | |
|--------------------------------|--------------------|
| Contact resistance | ≤ 5 mΩ |
| 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 |
| 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 | Zinc die-cast, nickel-plated |

Connection data

| | |
|----------------|-------------------------------------|
| Pin assignment | 1 (Plug) SR (shield) 1 (Socket) |
|----------------|-------------------------------------|

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

Connector

Connection 1

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

Connection 2

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

Cable/line

| | |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

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

| | |
|--|--|
| Dimensional drawing | |
|  | |
| 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 | 2xAWG24/19+2xAWG22/19 |
| Conductor structure signal line | 19x 0.13 mm |
| AWG signal line | 24 |
| Conductor cross section | 2x 0.25 mm ² (Data cable) 2x 0.34 mm ² (Power supply) |

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| | |
|---|---|
| | 1x 0.34 mm ² (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 |
| 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 |
| Smallest bending radius, fixed installation | 34 mm |
| Smallest bending radius, movable installation | 67 mm |
| 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) |

Environmental and real-life conditions

Ambient conditions

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| | |
|----------------------|------|
| Degree of protection | IP65 |
| | IP67 |

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Approvals

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UL Listed

Approval ID: FILE E 221474

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 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 |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 125 V | 4 A | - | - |



EAC-RoHS

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

cULus Listed

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27060307 |
| ECLASS-12.0 | 27060307 |
| ECLASS-13.0 | 27060307 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC001855 |
|----------|----------|

UNSPSC

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

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Environmental product compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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