

SAC-5P-MINMS/10,0-U30/MINFS - Bus system cable



1416962

<https://www.phoenixcontact.com/us/products/1416962>

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Bus system cable, DeviceNet™, 5-position, PVC, gray, shielded, Plug straight 7/8"-16UNF, coding: A, on Socket straight 7/8"-16UNF, coding: A, cable length: 10 m

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1416962 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF14 |
| Product key | AF1IMD |
| GTIN | 4055626220086 |
| Weight per piece (including packing) | 22.22 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85444290 |
| Country of origin | MX |

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Technical data

Product properties

| | |
|---------------------|-----------------------|
| Product type | Sensor/actuator cable |
| Application | Standard |
| Number of positions | 5 |
| Shielded | yes |
| Coding | A |

Material specifications

| | |
|--|-------------------|
| Flammability rating according to UL 94 | V-0 |
| Material of grip body | PVC |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PVC |
| Material for screw connection | Anodized aluminum |

Electrical properties

| | |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage U_N | 300 V AC/DC (UL rating) |
| | 50 V AC/DC (IEC rating) |
| Nominal current I_N | 4 A |

Signaling

| | |
|------------------------|----|
| Status display | no |
| Status display present | no |

Connection data

Conductor connection

| | |
|-------------------|-------------------------|
| Tightening torque | 10 lb _f -in. |
| | 1.12 Nm |

Connection assignment

| | |
|---|-------------------------------------|
| Contact Color (signal designation) Contact (optional) | 1 (Plug) SR (shield) 1 (Socket) |
| | 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 7/8"-16UNF |
| Number of positions | 5 |

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| | |
|-------------|---|
| Coding type | A |
|-------------|---|

Connection 2

| | |
|---------------------|----------------------------|
| Type | Socket straight 7/8"-16UNF |
| Number of positions | 5 |
| Coding type | A |

Cable/line

| | |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

CANopen®/DeviceNet™, PUR, gray [U30]

| | |
|-------------------------------------|--|
| Number of positions | 5 |
| Shielded | yes |
| Cable type | CANopen®/DeviceNet™, PUR, gray [U30] |
| Conductor structure signal line | 19 x AWG 36 |
| Conductor structure, voltage supply | 19 x AWG 34 |
| Conductor cross-section | 2 x AWG 24 data cable 2 x AWG 22 power supply 1 x AWG 24 drain wire |
| External cable diameter | 6.60 mm |
| Outer sheath, material | PVC |
| External sheath, color | gray |
| Conductor material | Tin-plated Cu litz wires |
| Material wire insulation | Foamed PE PVC (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 | 65 % |
| Flame resistance | FT4 |
| Resistance to oil | OIL RES I |
| Other resistance | UV resistant (720 h) |
| Ambient temperature (operation) | -20 °C ... 75 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|--|
| Degree of protection | IP68 |
| Ambient temperature (operation) (male connector/female connector) | -20 °C ... 75 °C (Plug / socket) |
| Ambient temperature (operation) (Cable, fixed installation) | -20 °C ... 75 °C (cable, fixed installation) |
| Ambient temperature (operation) (Cable, flexible installation) | -5 °C ... 80 °C (Cable, flexible installation) |

Drawings

Dimensional drawing



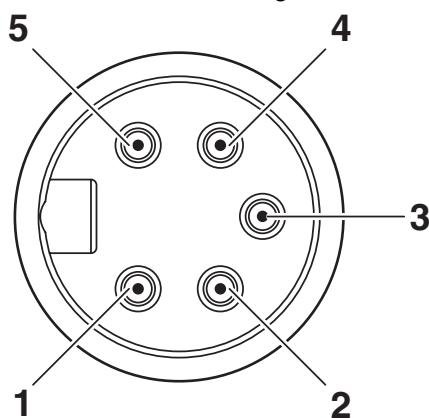
7/8"-16UNF plug, straight

Dimensional drawing



7/8"-16UNF socket, straight

Schematic diagram



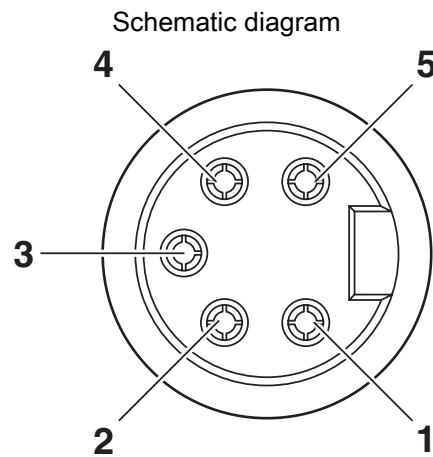
Pin assignment, plug, 7/8"-16UNF, 5-pos., view of male side

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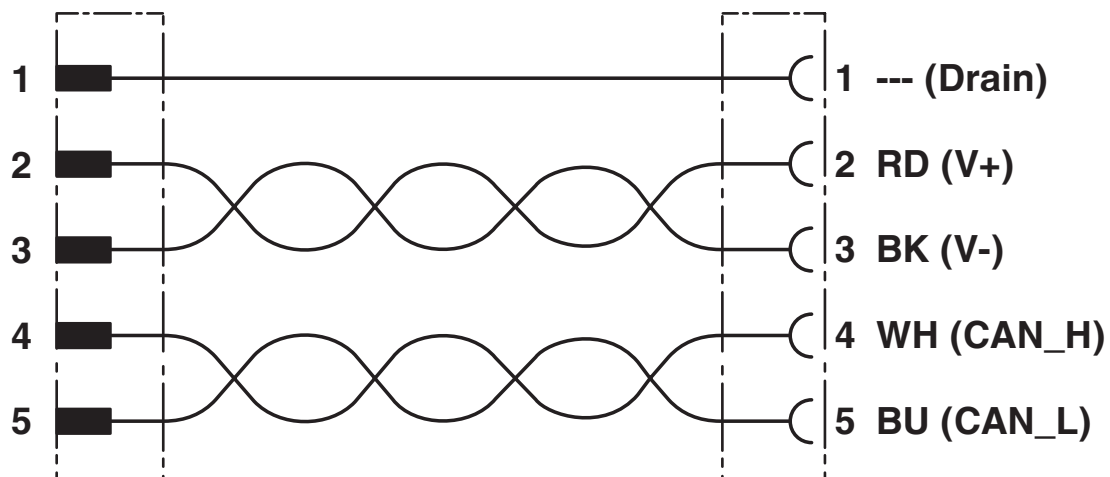
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Pin assignment, socket, 7/8"-16UNF, 5-pos., view of female side

Circuit diagram



Contact assignment of 7/8" plugs/sockets

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Approvals

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UL Listed

Approval ID: FILE E 221474



cUL Listed

Approval ID: FILE E 221474

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 31251501 |
|-------------|----------|

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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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