

1416885  
<https://www.phoenixcontact.com/us/products/1416885>

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

Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1416885                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF14                           |
| Product key                          | BF1IMD                         |
| GTIN                                 | 4055626219646                  |
| Weight per piece (including packing) | 22.22 g                        |
| Weight per piece (excluding packing) | 22.22 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | MX                             |

# SAC-5P-10,0-U40/MINFS - Bus system cable



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## Technical data

### Notes

#### Trade restriction

CE note

The products are offered exclusively for export outside the EU and the European Economic Area.

### Product properties

|                     |                       |
|---------------------|-----------------------|
| Product type        | Sensor/actuator cable |
| Application         | Standard              |
| Sensor type         | DeviceNet™            |
| 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          | ≥ 100 MΩ |
| Nominal voltage U <sub>N</sub> | 300 V AC |
|                                | 300 V DC |
| Nominal current I <sub>N</sub> | 8 A      |

### Signaling

|                        |    |
|------------------------|----|
| Status display         | No |
| Status display present | No |

### Connection data

#### Conductor connection

Tightening torque

10 lb<sub>F</sub>-in.

1.12 Nm

#### Pin assignment

Contact | Color (signal designation) | Contact (optional)

1 | SR (shield) | 1 (Socket)

2 | RD (V+) | 2 (Socket)

3 | BK (V-) | 3 (Socket)

4 | WH (CAN\_H) | 4 (Socket)

5 | BU (CAN\_L) | 5 (Socket)

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## Connector

### Connection 1

|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|

### Connection 2

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

## Cable/line

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

### DeviceNet trunk cable [U40]

|                                 |                                                       |
|---------------------------------|-------------------------------------------------------|
| Number of positions             | 5                                                     |
| Shielded                        | yes                                                   |
| Cable type                      | DeviceNet trunk cable [U40]                           |
| Conductor structure signal line | 19 x AWG 30                                           |
| Conductor cross section         | 2 x AWG 18 data cable                                 |
|                                 | 2 x AWG 15 power supply                               |
|                                 | 1 x AWG 18 drain wire                                 |
| External cable diameter         | 11.43 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                | UL 1581, FT4                                          |
| Resistance to oil               | OIL RES I according to UL 2256                        |
| Other resistance                | UV resistant (720 h) (UL 2556)                        |
| 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) | -20 °C ... 75 °C (Plug / socket)               |
|                                 | -20 °C ... 75 °C (cable, fixed installation)   |
|                                 | -5 °C ... 80 °C (Cable, flexible installation) |

# SAC-5P-10,0-U40/MINFS - Bus system cable

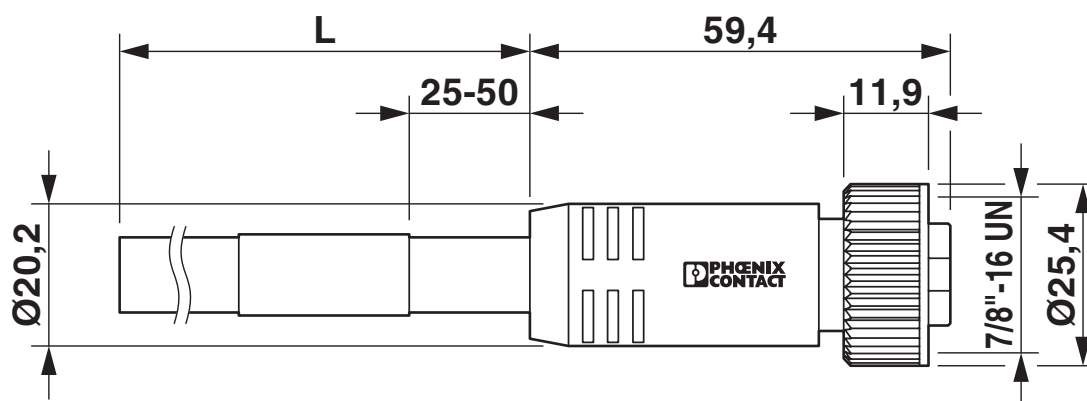


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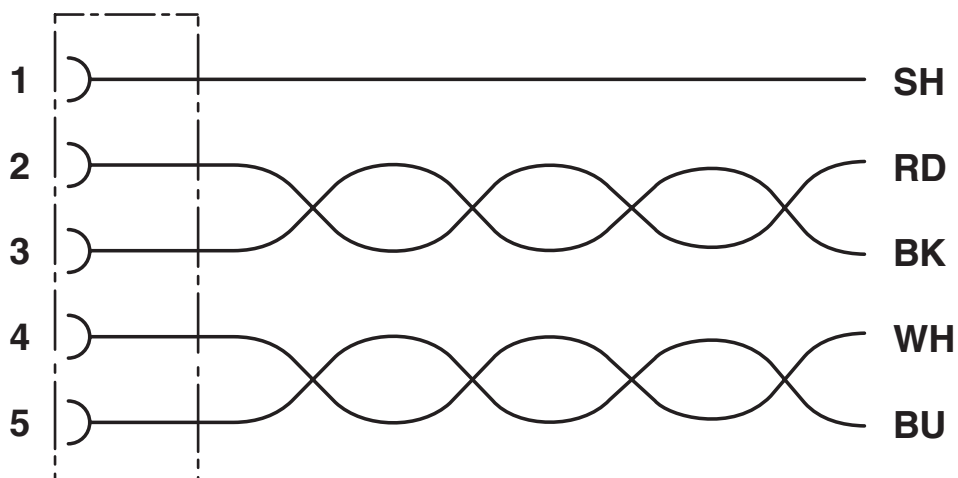
## Drawings

Dimensional drawing



7/8"-16UNF socket, straight

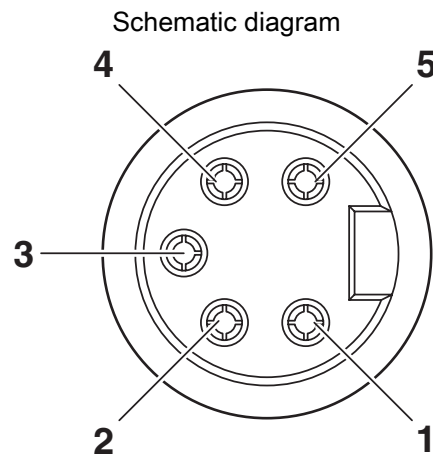
Circuit diagram



# SAC-5P-10,0-U40/MINFS - Bus system cable

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

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## Approvals

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**UL Listed**

Approval ID: FILE E 221474



**cUL Listed**

Approval ID: FILE E 221474

**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 | 31251501 |
|-------------|----------|

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## Environmental product compliance

|                                         |                                                       |
|-----------------------------------------|-------------------------------------------------------|
| EU RoHS                                 |                                                       |
| Fulfills EU RoHS substance requirements | Not applicable, Not qualified for the European market |
| EU REACH SVHC                           |                                                       |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%                            |

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