

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



1416889

<https://www.phoenixcontact.com/us/products/1416889>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1416889                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF14                           |
| Product key                          | AF1IMD                         |
| GTIN                                 | 4055626219684                  |
| 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-MINMR/10,0-U40/MINFR - Bus system cable



1416889

<https://www.phoenixcontact.com/us/products/1416889>

## Technical data

### 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/DC (UL rating) |
|                                | 50 V AC/DC (IEC rating) |
| 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                 |

#### 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 angled 7/8"-16UNF |
|------|------------------------|

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



1416889

<https://www.phoenixcontact.com/us/products/1416889>

|                     |   |
|---------------------|---|
| Number of positions | 5 |
| Coding type         | A |

## Connection 2

|                     |                          |
|---------------------|--------------------------|
| Type                | Socket angled 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 structure, voltage supply | 19 x AWG 28                                           |
| 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)        |

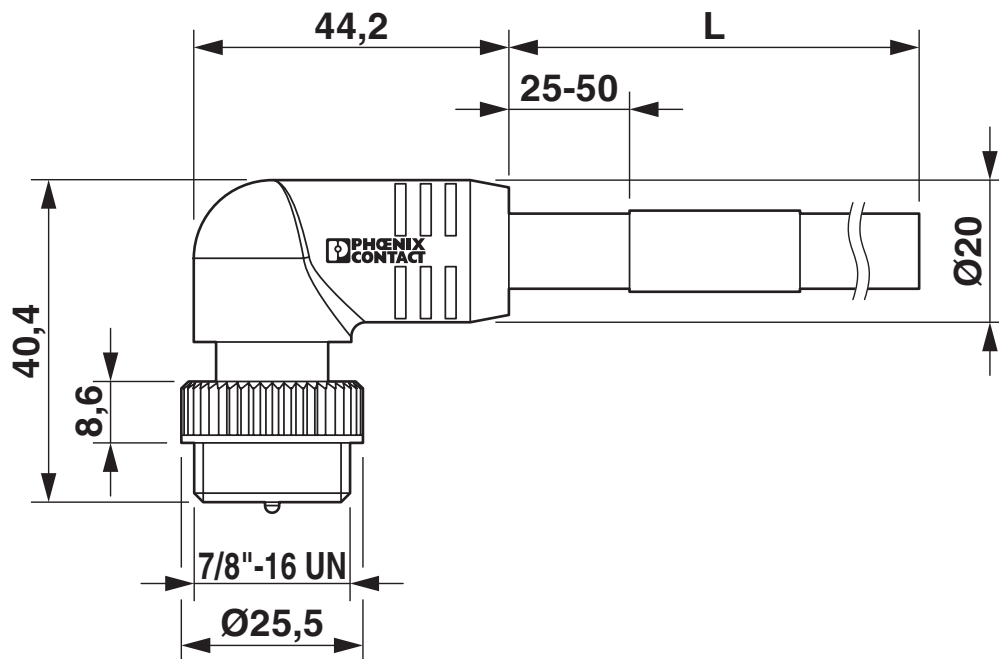
## Environmental and real-life conditions

### Ambient conditions

|                                                                   |                                                |
|-------------------------------------------------------------------|------------------------------------------------|
| Degree of protection                                              | IP68                                           |
| Ambient temperature (operation) (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) |

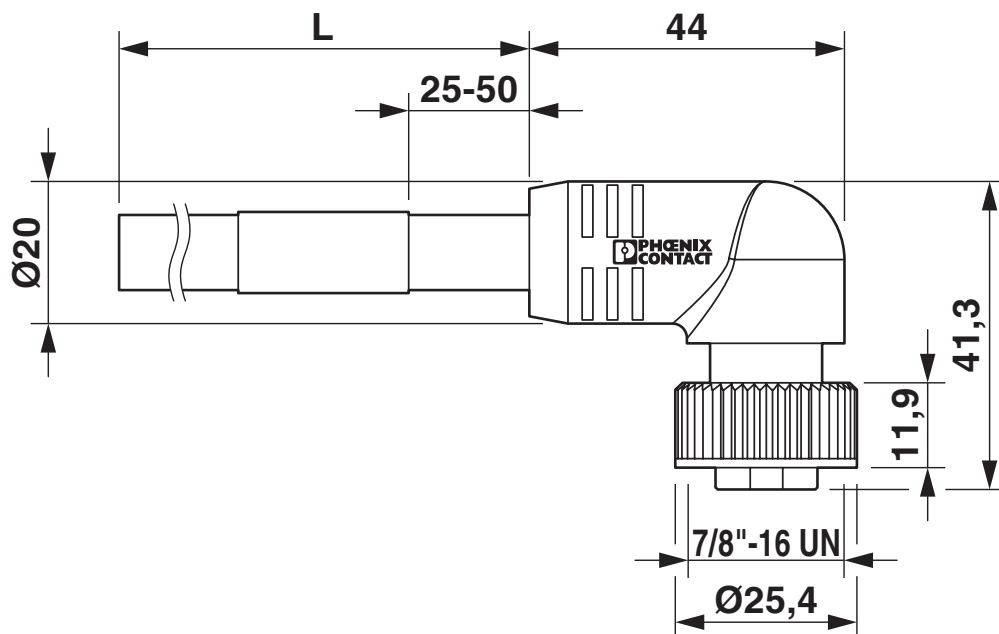
## Drawings

Dimensional drawing



7/8"-16UNF plug, angled

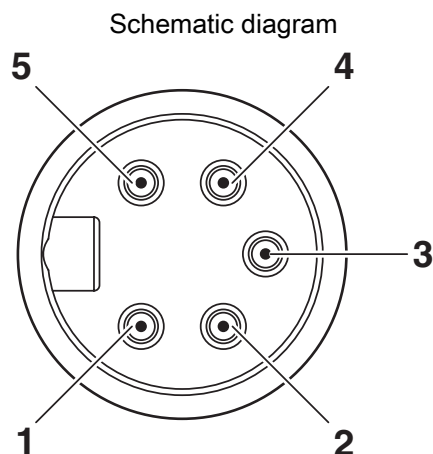
Dimensional drawing



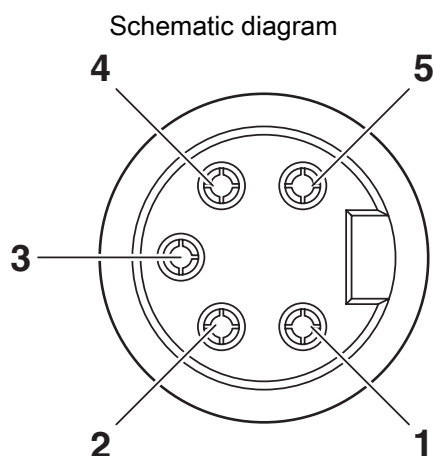
7/8"-16UNF socket, angled

1416889

<https://www.phoenixcontact.com/us/products/1416889>

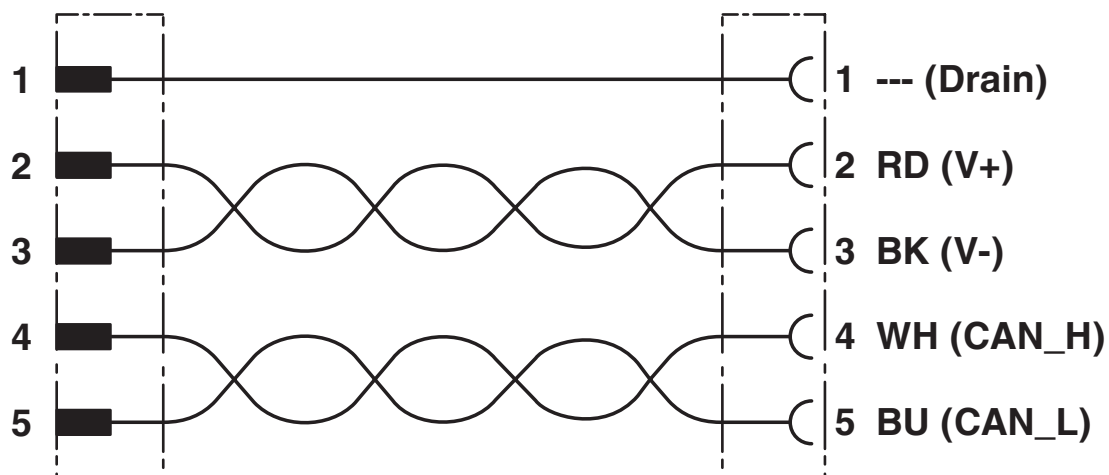


Pin assignment, plug, 7/8"-16UNF, 5-pos., view of male side



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

Circuit diagram



Contact assignment of 7/8" plugs/sockets

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



1416889

<https://www.phoenixcontact.com/us/products/1416889>

## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

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

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



1416889

<https://www.phoenixcontact.com/us/products/1416889>

## 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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)