

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



1416961

<https://www.phoenixcontact.com/us/products/1416961>

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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: 5 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1416961                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF14                           |
| Product key                          | AF1IMD                         |
| GTIN                                 | 4055626220079                  |
| 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 <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 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 | 5 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)        |

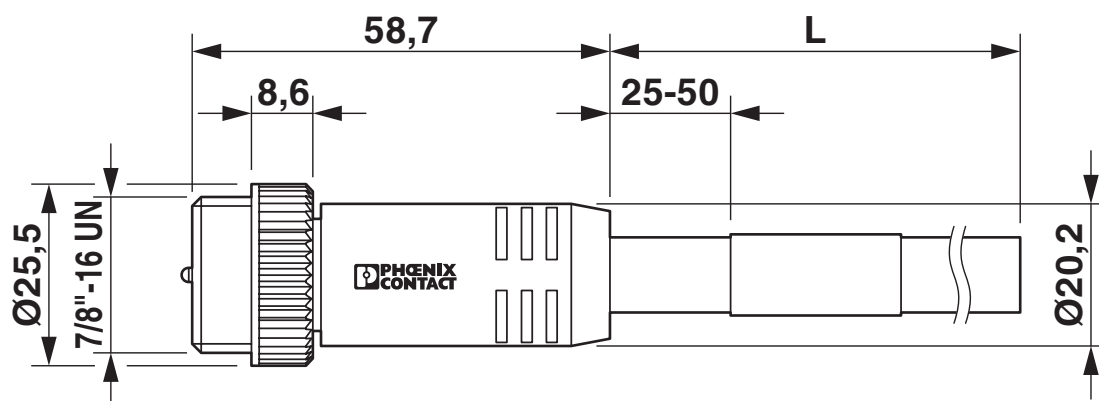
## Environmental and real-life conditions

### 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) |

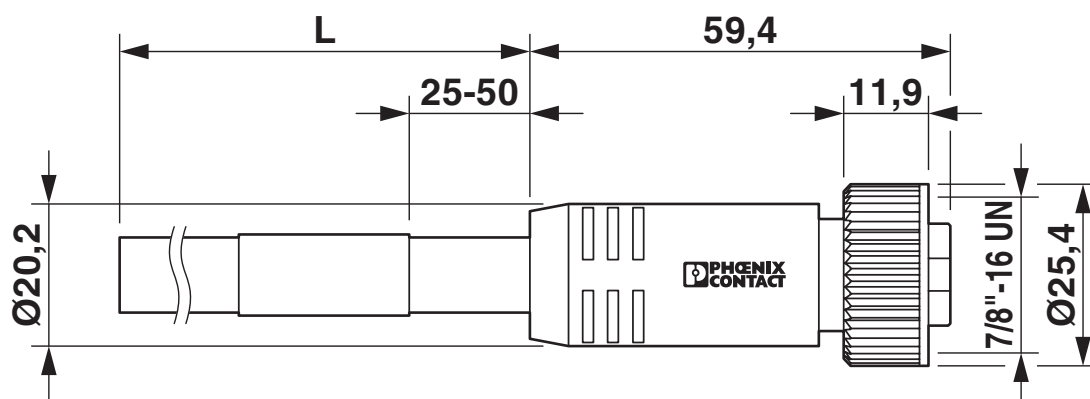
## Drawings

Dimensional drawing



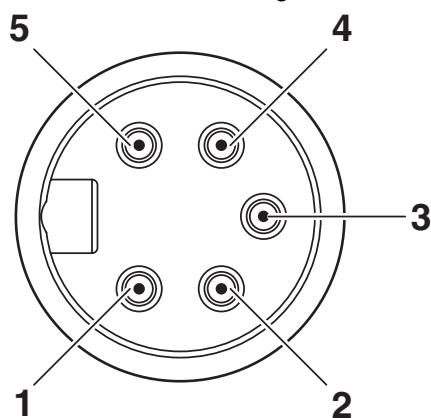
7/8"-16UNF plug, straight

Dimensional drawing



7/8"-16UNF socket, straight

Schematic diagram

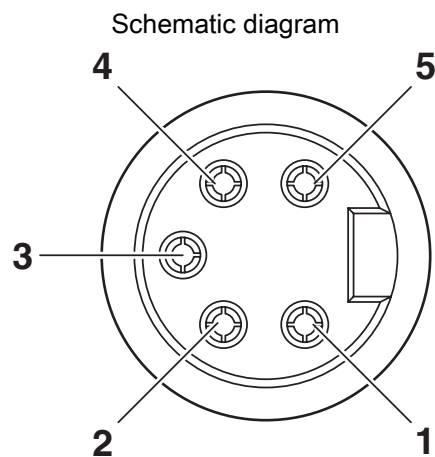


Pin assignment, plug, 7/8"-16UNF, 5-pos., view of male side

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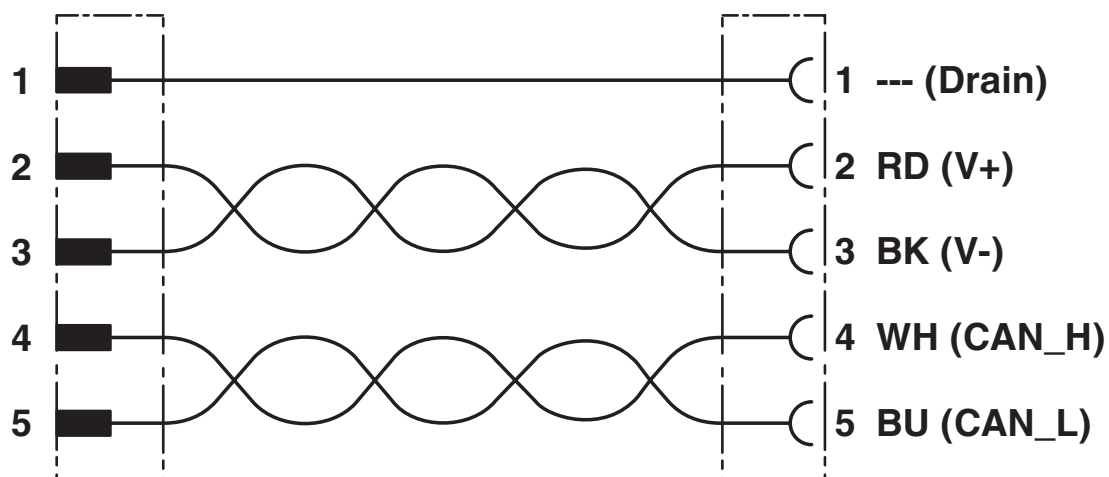
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Pin assignment, socket, 7/8"-16UNF, 5-pos., view of female side

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



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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002599 |
|-----------|----------|

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

### EF3.1 Climate Change

|         |                |
|---------|----------------|
| CO2e kg | 17.255 kg CO2e |
|---------|----------------|

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