

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



1416957

<https://www.phoenixcontact.com/us/products/1416957>

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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1416957                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF14                           |
| Product key                          | AF1IMD                         |
| GTIN                                 | 4055626220031                  |
| 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              |
| 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> | 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 |
|                                                           | 2 (Plug)   RD (V+)   2     |
|                                                           | 3 (Plug)   BK (V-)   3     |
|                                                           | 4 (Plug)   WH (CAN_H)   4  |
|                                                           | 5 (Plug)   BU (CAN_L)   5  |

### Connector

#### Connection 1

|      |                          |
|------|--------------------------|
| Type | Plug straight 7/8"-16UNF |
|------|--------------------------|

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

## Connection 2

|                     |                |
|---------------------|----------------|
| Type                | free cable end |
| Number of positions | 5              |

## 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<br>2 x AWG 22 power supply<br>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<br>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)<br>-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) |

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

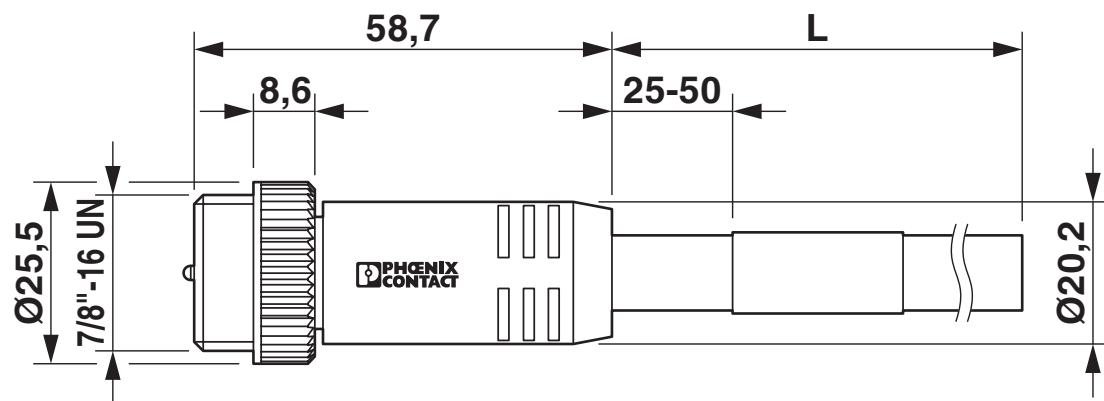


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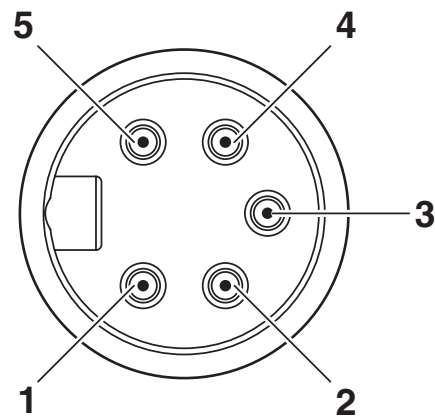
## Drawings

Dimensional drawing



7/8"-16UNF plug, straight

Schematic diagram



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

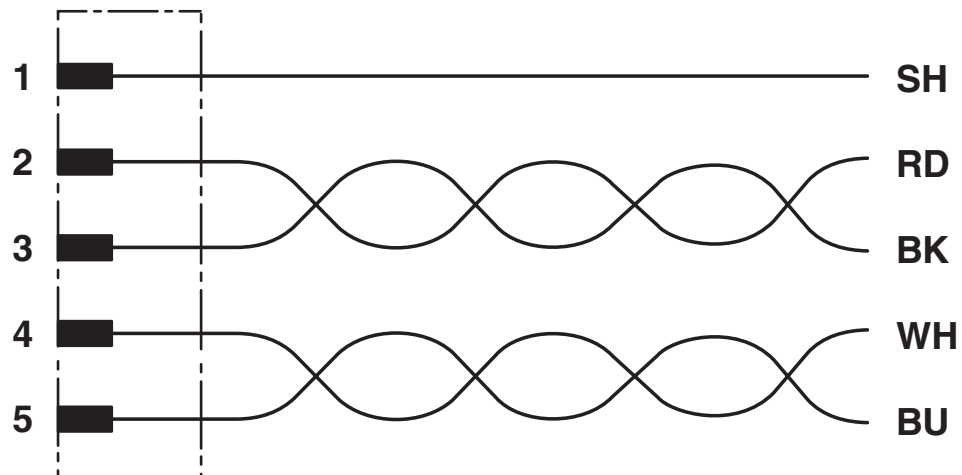
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Circuit diagram



Contact assignment of 7/8"

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

### 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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