

# SAC-4P-MINMR/10,0-961/MINFRVA - Bus system cable



1434552

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Bus system cable, FOUNDATION Fieldbus (31.25 kbps), 3-position, PVC, blue RAL 5015, shielded, Plug angled 7/8"-16UNF, coding: A, on Socket angled 7/8"-16UNF, coding: A, cable length: 10 m



## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1434552                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | AF1FCG                         |
| GTIN                                 | 4046356456180                  |
| Weight per piece (including packing) | 222.22 g                       |
| Weight per piece (excluding packing) | 222.22 g                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                      |                         |
|----------------------|-------------------------|
| Product type         | Data cable preassembled |
| Application          | Process technology      |
| Number of positions  | 3                       |
| No. of cable outlets | 1                       |
| Coding               | A                       |

### Insulation characteristics

|                     |   |
|---------------------|---|
| Degree of pollution | 2 |
|---------------------|---|

### Interfaces

|                      |                                 |
|----------------------|---------------------------------|
| Bus system           | FOUNDATION Fieldbus             |
| Signal type/category | FOUNDATION Fieldbus, 31.25 kbps |

### Signaling

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

### Electrical properties

|                       |                           |
|-----------------------|---------------------------|
| Insulation resistance | $\geq 10 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 300 V                     |
| Nominal current $I_N$ | 5.2 A                     |
| Transmission medium   | Copper                    |
| Transmission speed    | 31.25 kbps                |

### Material specifications

|                               |                 |
|-------------------------------|-----------------|
| Seal material                 | TPU             |
| Material of grip body         | TPU             |
| Contact material              | CuZn            |
| Contact surface material      | Au              |
| Contact carrier material      | PA 6.6          |
| Material for screw connection | Stainless steel |

### Connection data

#### Connection assignment

|   |                                     |
|---|-------------------------------------|
| Contact   Color (signal designation)   Contact (optional) | 1 (Plug)   BU (DATA-)   1 (Socket)  |
|   | 2 (Plug)   OG (DATA+)   2 (Socket)  |
|   | 3 (Plug)   SR (shield)   3 (Socket) |

### Connector

#### Connection 1

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

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|                     |              |
|---------------------|--------------|
| Number of positions | 3            |
| Coding type         | A (Standard) |

## Connection 2

|                     |                          |
|---------------------|--------------------------|
| Type                | Socket angled 7/8"-16UNF |
| Number of positions | 3                        |
| Coding type         | A (Standard)             |

## Cable/line

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

## Fieldbus FOUNDATION/PROFIBUS PA, blue [961]

|                                 |   |
|---------------------------------|---|
| Dimensional drawing             |  |
| Cable weight                    | 56.552 kg/km  |
| Number of positions             | 2   |
| Shielded                        | yes   |
| Cable type                      | Fieldbus FOUNDATION/PROFIBUS PA, blue [961]   |
| Conductor structure             | 2xAWG18/7 + 1xAWG20/7   |
| Signal speed                    | 0.66 c  |
| Conductor structure signal line | 7x 0.40 mm  |
| AWG signal line                 | 18  |
| Conductor cross-section         | 2x 0.75 mm <sup>2</sup> (Signal line)<br>1x 0.5 mm <sup>2</sup> (Drain wire)        |
| Wire diameter incl. insulation  | 2.24 mm ±0.05 mm  |
| External cable diameter         | 7.50 mm ±0.25 mm  |
| Outer sheath, material          | PVC   |
| External sheath, color          | blue RAL 5015   |
| Conductor material              | Tin-plated Cu litz wires  |
| Material wire insulation        | PO (Signal line)  |
| Single wire, color              | blue, orange  |
| Thickness, insulation           | 0.50 mm   |
| Thickness, outer sheath         | 1.00 mm   |
| Twisted pairs                   | 2 cores to the pair   |
| Overall twist                   | One pair with one drain wire and fillers for core                                   |
| Optical shield covering         | 100 %   |
| Max. conductor resistance       | ≤ 19.35 Ω/km (Signal line)<br>26 Ω/km (shield)                                      |
| Cable capacity                  | 147 pF/m (at 1 kHz, core/shield)  |

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|   |   |
|---|---|
|   | ≤ 3.94 pF/m (capacitance unbalance)           |
| Working capacitance                         | 78 nF (at 1 kHz)                              |
| Cable impedance                             | 100 Ω ±20 % (At 31.25 kHz)                    |
| Nominal voltage, cable                      | 300 V   |
| Smallest bending radius, fixed installation | 75 mm   |
| Tensile strength                            | 260 N   |
| Shield attenuation                          | 3.00 dB/km (at 39 kHz)                        |
| Flame resistance                            | UL 1685 (CSA FT 4)                            |
|   | UL 1685 (vertical tray)                       |
|   | UL 1666 (riser)                               |
| Special properties                          | UL standards PLTC-ER and ITC                  |
| Ambient temperature (operation)             | -40 °C ... 105 °C (cable, fixed installation) |

## Environmental and real-life conditions

### Ambient conditions

|   |                                   |
|---|-----------------------------------|
| Degree of protection  | IP67                              |
| Enclosure rating (NEMA)   | 1 (NEMA)                          |
|   | 3 (NEMA)                          |
|   | 4 (NEMA)                          |
|   | 6P (NEMA)                         |
| Ambient temperature (operation) (male connector/female connector) | -40 °C ... 105 °C (Plug / socket) |

# SAC-4P-MINMR/10,0-961/MINFRVA - Bus system cable

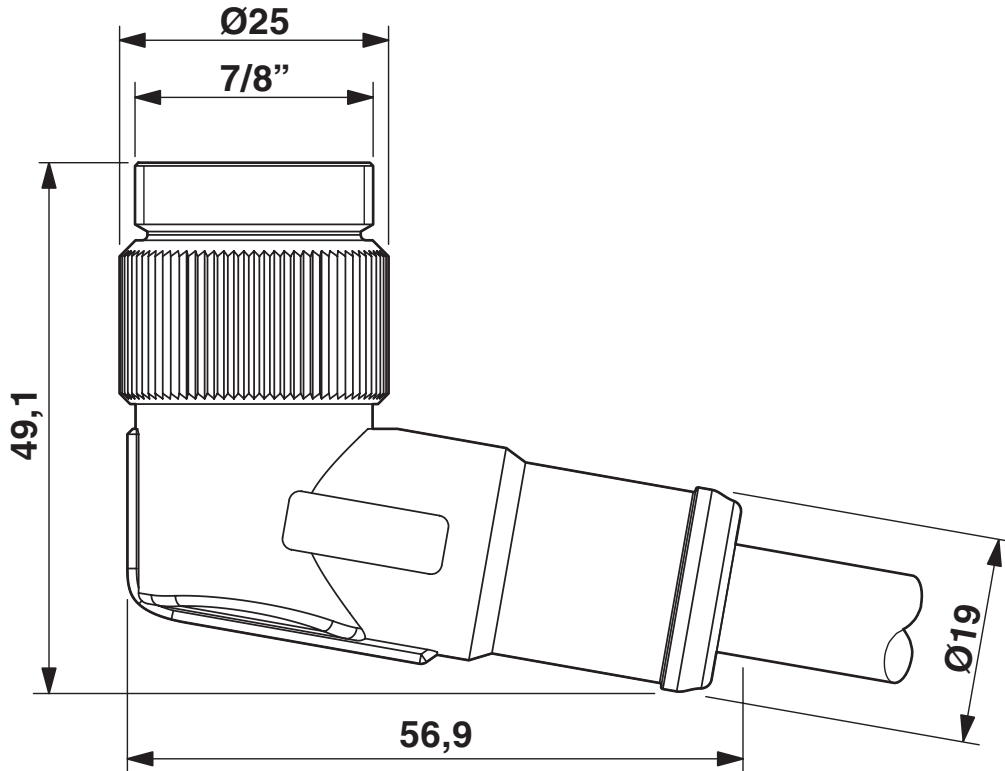


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## Drawings

Dimensional drawing



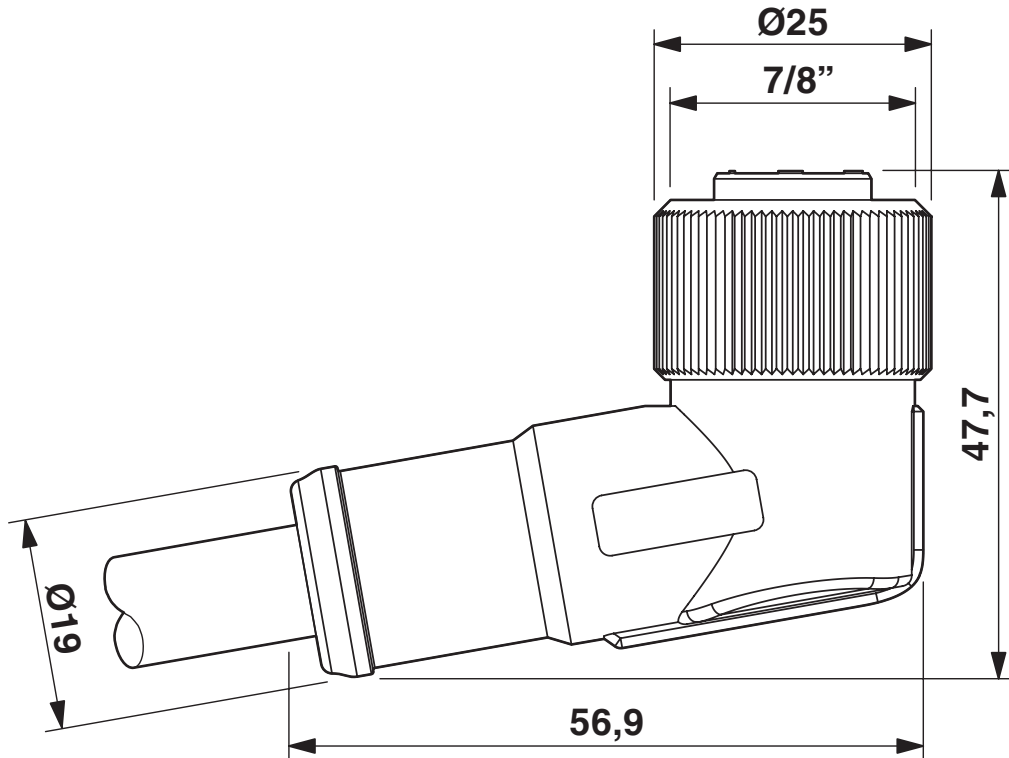
7/8"-16UNF plug, angled

# SAC-4P-MINMR/10,0-961/MINFRVA - Bus system cable

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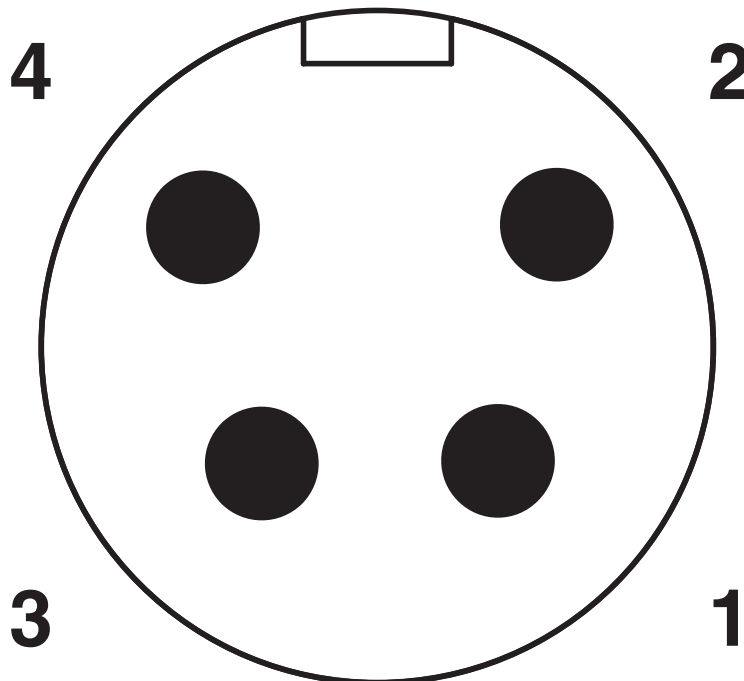
<https://www.phoenixcontact.com/us/products/1434552>

Dimensional drawing



7/8"-16UNF socket, angled

Schematic diagram



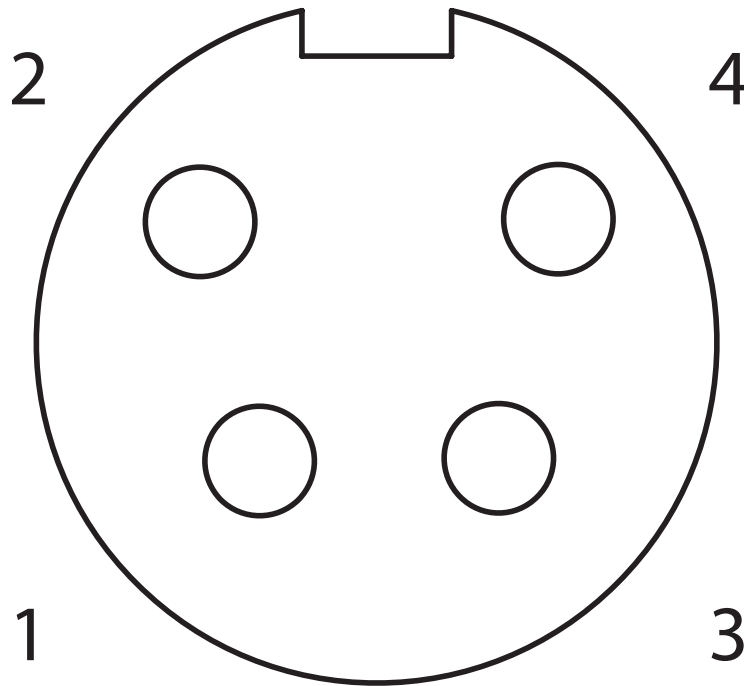
Pin assignment, plug, 7/8"-16UNF, 4-pos., view of male side

# SAC-4P-MINMR/10,0-961/MINFRVA - Bus system cable

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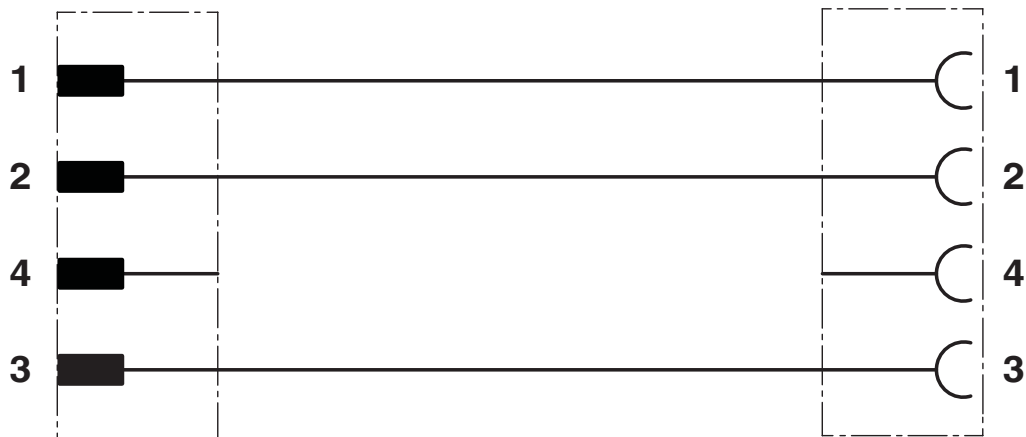
<https://www.phoenixcontact.com/us/products/1434552>

Schematic diagram



Pin assignment, socket, 7/8"-16UNF, 4-pos., view of female side

Circuit diagram



Contact assignment of the 7/8" connector and the 7/8" socket

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## Classifications

### ECLASS

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

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## Environmental product compliance

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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