

Bus system cable - SAC-4P-MINMR/ 1,0-960/MINFSVAL - 1429680

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Bus system cable, FOUNDATION Fieldbus (31.25 kbps), 3-position, PVC, orange RAL 2003, shielded, Plug angled 7/8"-16UNF, coding: A, on Socket straight 7/8"-16UNF, coding: A, cable length: 1 m



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 318891 |
| GTIN | 4046356318891 |
| Weight per Piece (excluding packing) | 222.220 g |
| Custom tariff number | 85444290 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 1 m |
|-----------------|-----|

Ambient conditions

| | |
|---------------------------------|-----------------------------------|
| Ambient temperature (operation) | -40 °C ... 105 °C (Plug / socket) |
| Degree of protection | IP67 |

General

| | |
|-----------------------|--------------|
| Rated current at 40°C | 5.2 A |
| Rated voltage | 300 V |
| Number of positions | 3 |
| Insulation resistance | ≥ 10 MΩ |
| Coding | A - standard |

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Technical data

General

| | |
|----------------------|--------------------------|
| Status display | No |
| Overvoltage category | II |
| Degree of pollution | 2 |
| Torque | 0.8 Nm (7/8" connectors) |

Material

| | |
|--|-----------------|
| Flammability rating according to UL 94 | HB |
| Contact material | CuZn |
| Contact surface material | AU |
| Contact carrier material | PA 6.6 |
| Material of grip body | TPU |
| Material, knurls | Stainless steel |

Standards and Regulations

| | |
|--|----|
| Flammability rating according to UL 94 | HB |
|--|----|

Cable

| | |
|---|---|
| Cable type | FOUNDATION Fieldbus orange |
| Cable type (abbreviation) | 960 |
| Cable structure | 2xAWG18/7 + 1xAWG20/7 |
| Conductor cross section | 2x 0.75 mm ² (Signal line) |
| | 1x 0.5 mm ² (Drain wire) |
| AWG signal line | 18 |
| Conductor structure signal line | 7x 0.40 mm |
| Core diameter including insulation | 2.24 mm ±0.05 mm |
| Thickness, insulation | 0.5 mm |
| Wire colors | Blue, orange |
| Twisted pairs | 2 cores to the pair |
| Overall twist | One pair with one drain wire and fillers for core |
| Shielding | Plastic-coated aluminum foil with a drain wire |
| Optical shield covering | 100 % |
| External sheath, color | orange RAL 2003 |
| Outer sheath thickness | 1 mm |
| External cable diameter D | 7.5 mm ±0.25 mm |
| Smallest bending radius, fixed installation | 75 mm |
| Cable weight | 56.552 kg/km |
| Tensile strength GRP | 260 N |
| Outer sheath, material | PVC |
| Material conductor insulation | PO (Signal line) |

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Technical data

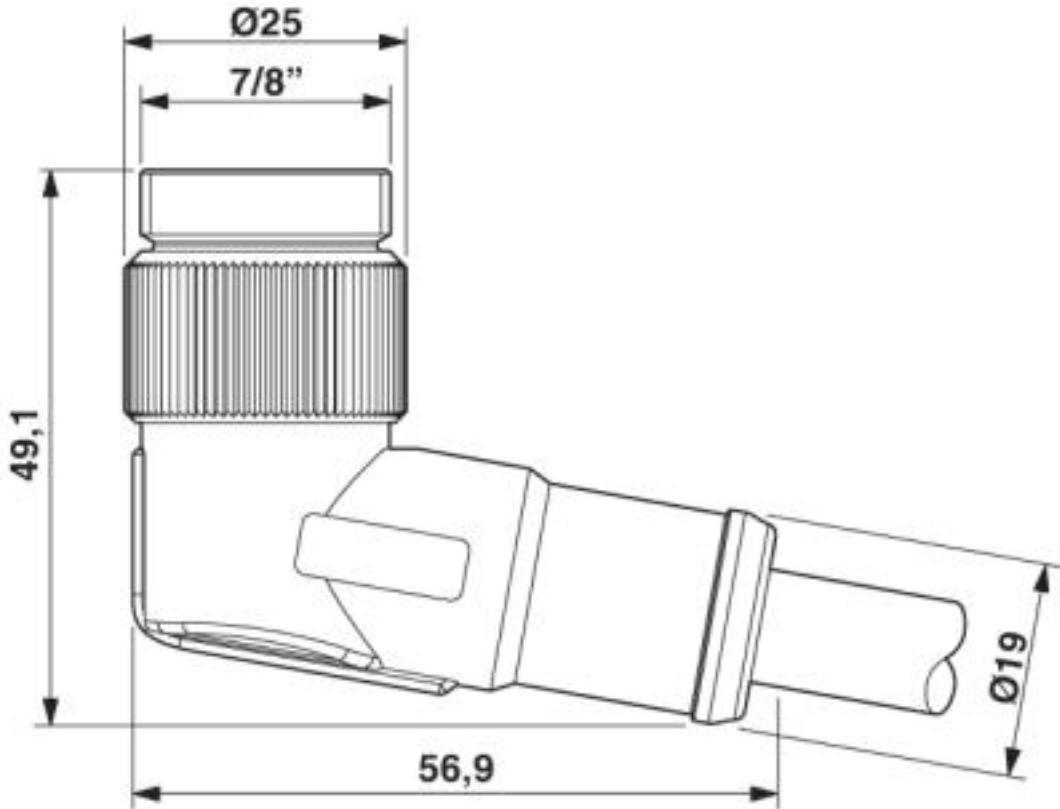
Cable

| | |
|---------------------------------|--|
| Conductor material | Tin-plated Cu litz wires |
| Conductor resistance | $\leq 19.35 \Omega/\text{km}$ (Signal line) |
| | $26 \Omega/\text{km}$ (shield) |
| Working capacitance | 78 nF (at 1 kHz) |
| Cable capacity | 147 pF/m (at 1 kHz, core/shield) |
| | $\leq 3.94 \text{ pF/m}$ (capacitance unbalance) |
| Signal speed | 0.66 c |
| Shield attenuation | 3 dB/km (at 39 kHz) |
| Cable impedance | $100 \Omega \pm 20\%$ (At 31.25 kHz) |
| Conductor inductance | 0.6233 $\mu\text{H/m}$ |
| Nominal voltage, cable | 300 V |
| Special properties | UL standards PLTC-ER and ITC |
| Flame resistance | UL 1685 (CSA FT 4) |
| | UL 1685 (vertical tray) |
| | UL 1666 (riser) |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation) |

Drawings

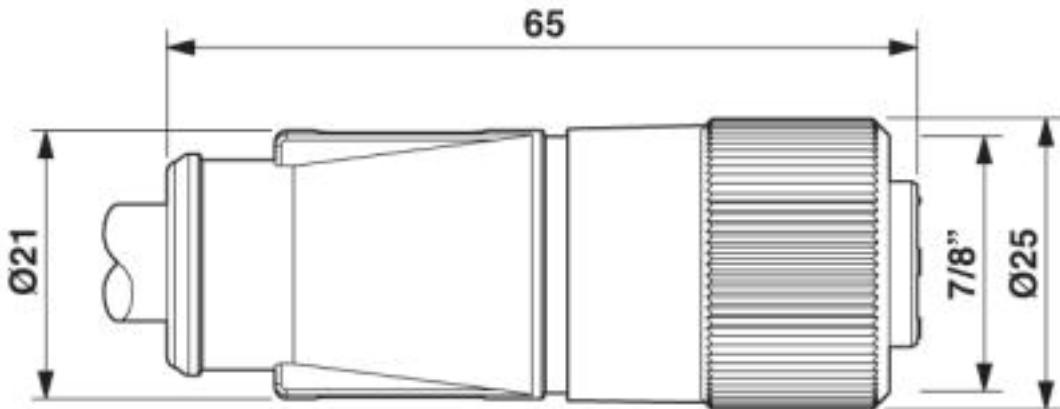
Bus system cable - SAC-4P-MINMR/ 1,0-960/MINFSVAL - 1429680

Dimensional drawing



7/8"-16UNF plug, angled

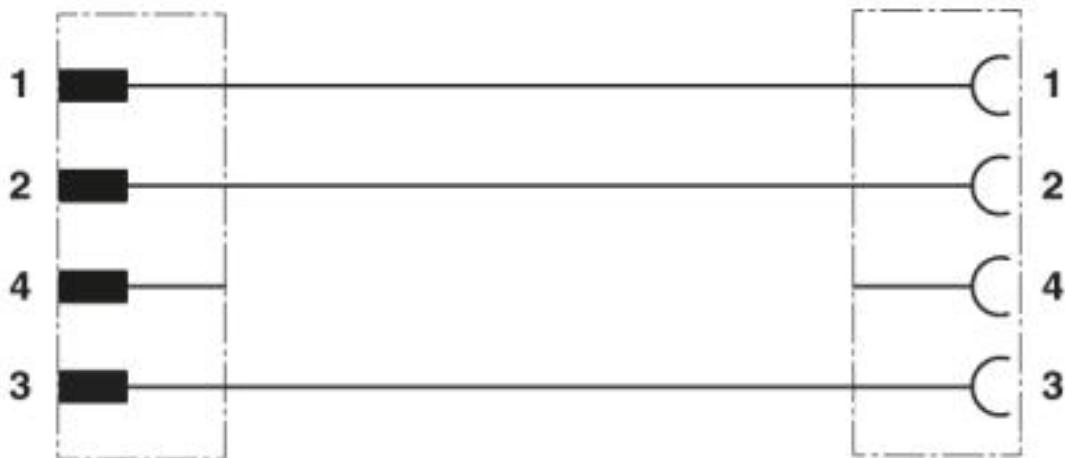
Dimensional drawing



7/8"-16UNF socket, straight

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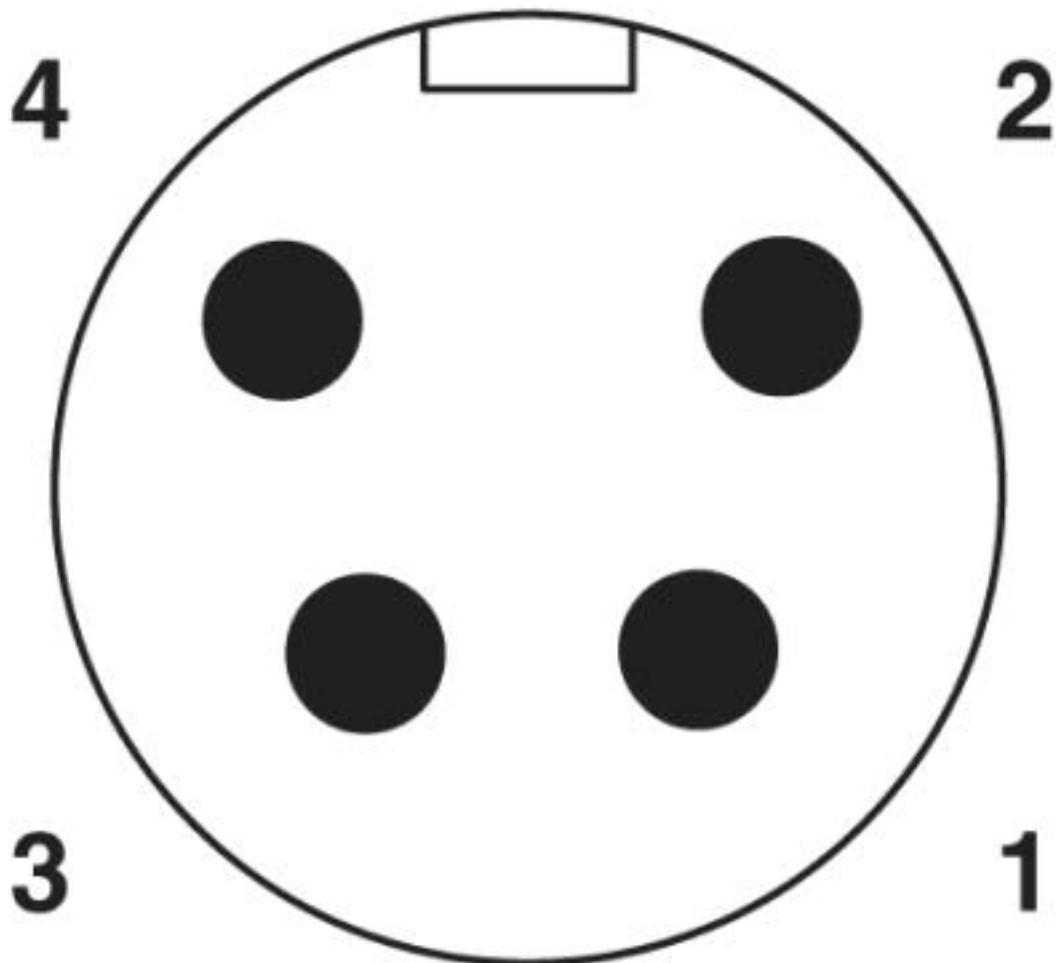
Circuit diagram



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

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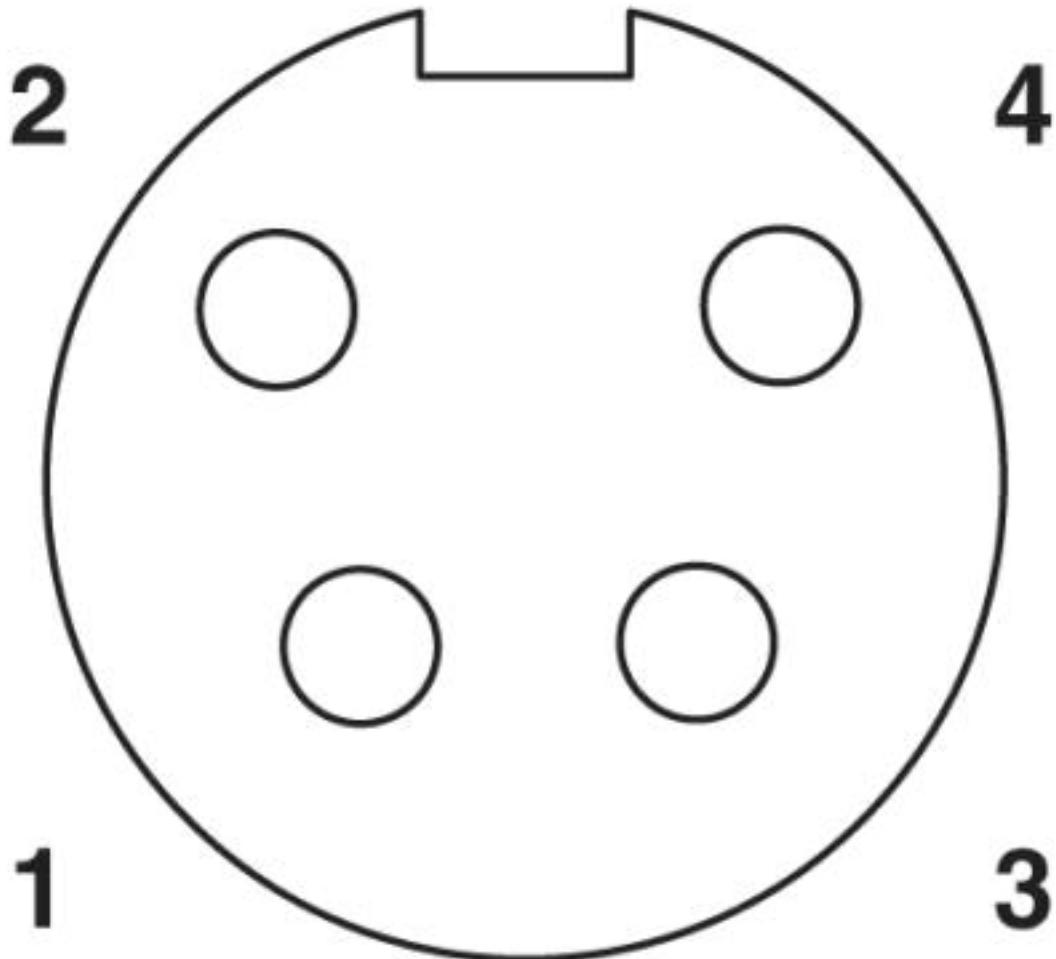
Schematic diagram



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

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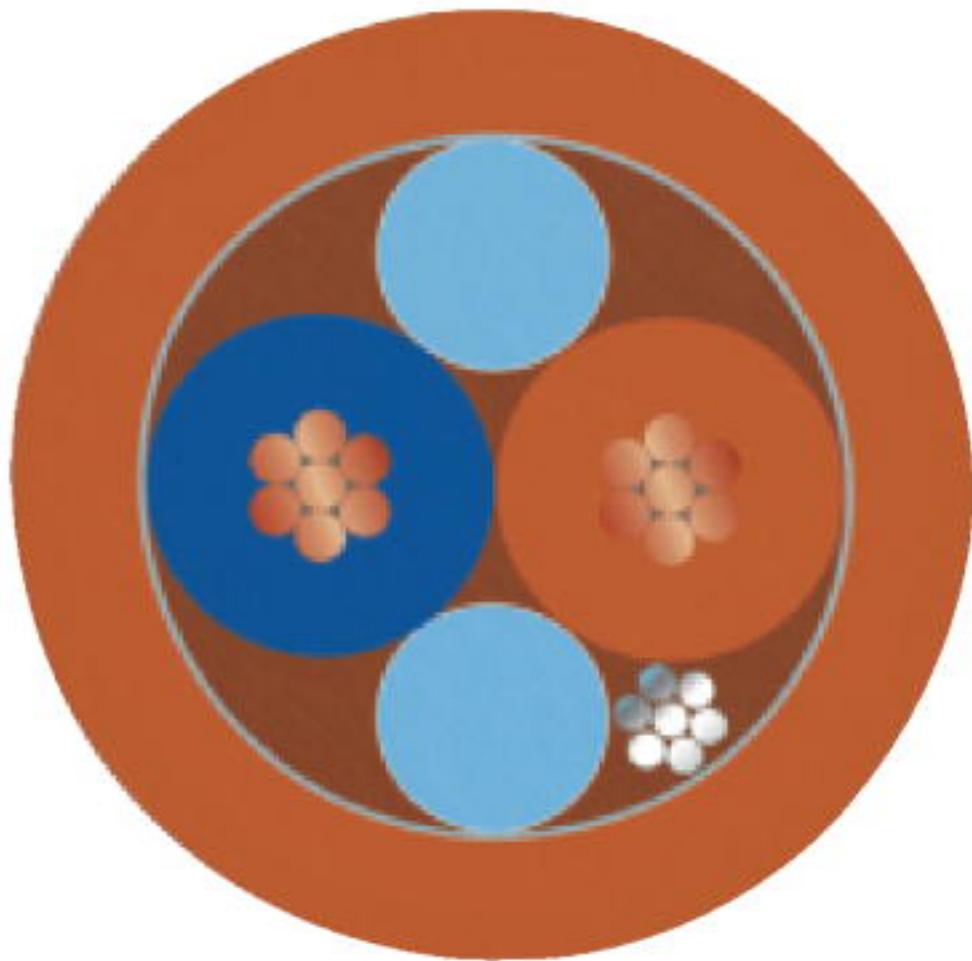
Schematic diagram



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

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Cable cross section



FOUNDATION Fieldbus orange [960]

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061800 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 9.0 | 27060311 |
|------------|----------|

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |
| UNSPSC 19.0 | 31251501 |