

SAC-4P-MINMS/10,0-961 VAL - Bus system cable



1433980

<https://www.phoenixcontact.com/us/products/1433980>

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



Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1433980 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | AF1FCG |
| GTIN | 4046356455817 |
| 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-) |
| | 2 (Plug) OG (DATA+) |
| | 3 (Plug) SR (shield) |

Connector

Connection 1

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

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

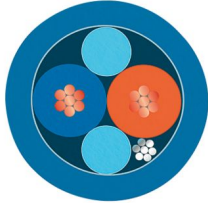
Connection 2

| | |
|------|----------------|
| Type | free cable end |
|------|----------------|

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 ² (Signal line) 1x 0.5 mm ² (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) 26 Ω/km (shield) |
| Cable capacity | 147 pF/m (at 1 kHz, core/shield) ≤ 3.94 pF/m (capacitance unbalance) |
| Working capacitance | 78 nF (at 1 kHz) |

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| | |
|---|---|
| Cable impedance | 100 Ω \pm 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) |

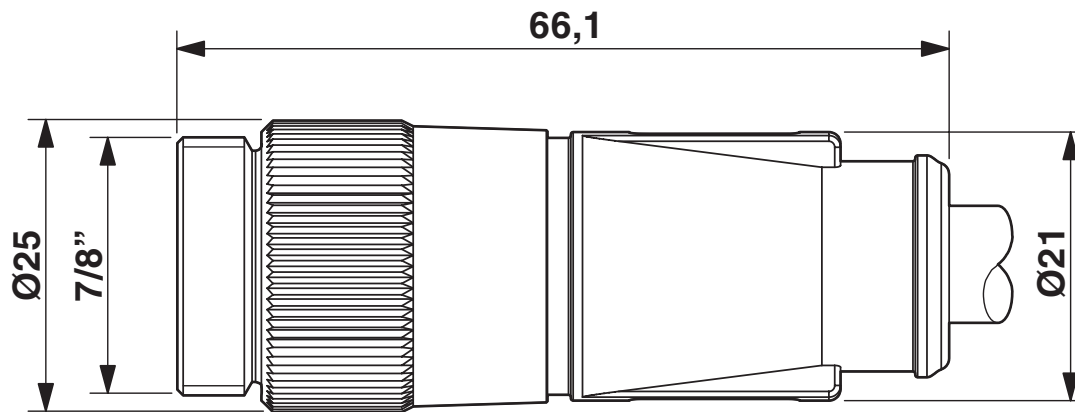
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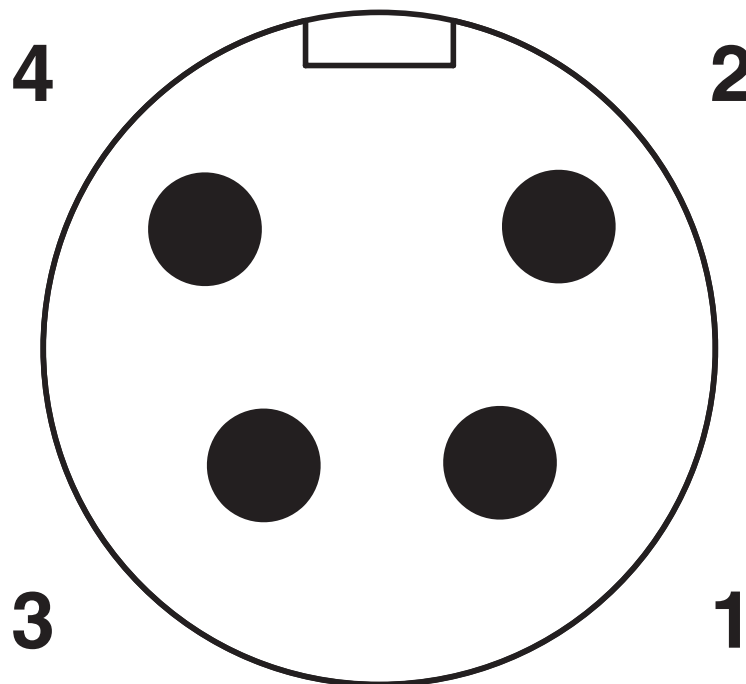
Drawings

Dimensional drawing



7/8"-16UNF plug, straight

Schematic diagram



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

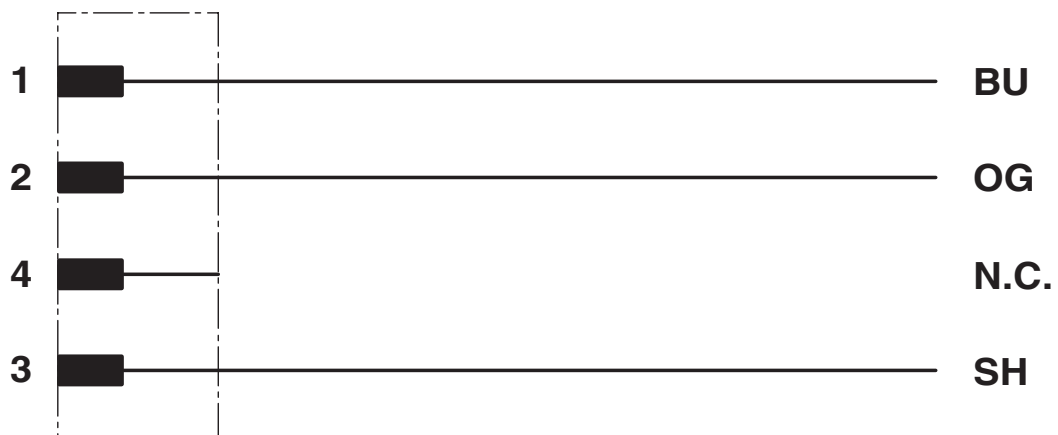
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Circuit diagram



Contact assignment of the 7/8" plug

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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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