


**SAC-4P-M12MSD/ 2,0-931/M12FSD**

Order No.: 1569537

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1569537>

Bus system cable, 4-position, PUR, halogen-free, water blue RAL 5021, shielded, Plug, straight M12, D-coded, on Socket, straight M12, D-coded, Cable length: 2 m

**Ethernet****Commercial data**

|                |  |
|----------------|--|
| GTIN (EAN)     |  |
| Note           | Made-to-order  |
| sales group    | D117   |
| Pack           | 1 pcs.   |
| Customs tariff | 85444290   |

**Product notes**

WEEE/RoHS-compliant since:  
12/20/2007



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**Technical data****General data**

|                       |        |
|-----------------------|--------|
| Rated current at 40°C | 4 A    |
| Rated voltage         | 60 V   |
| Number of positions   | 4      |
| Volume resistance     | ≤ 5 mΩ |

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|                                 |  |
|---------------------------------|--|
| Insulation resistance           | ≥ 100 MΩ   |
| Length of cable                 | 2 m  |
| Ambient temperature (operation) | -25 °C ... 90 °C (Male connector / female connector) |

**General characteristics**

|                             |   |
|-----------------------------|---|
| Coding                      | D - data                                    |
| Surge voltage category      | II  |
| Pollution degree            | 3   |
| Degree of protection        | IP65/IP67/IP69K                             |
| Insertion/withdrawal cycles | ≥ 100                                       |
| Contact material            | CuSn  |
| Contact surface material    | Ni/Au                                       |
| Contact carrier material    | PA 66                                       |
| Material of grip body       | TPU, hardly inflammable, self-extinguishing |
| Material, knurls            | Zinc die-cast, (nickel-plated)              |
| Sealing material            | NBR   |
| Status display              | No  |

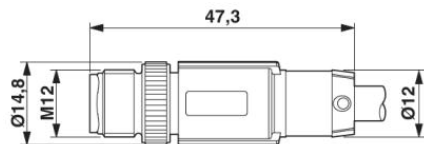
**Conductor data**

|   |  |
|---|--|
| Cable type                              | Ethernet                                     |
| Cable type (abbreviation)               | 93E  |
| Conductor cross section                 | 0.14 mm <sup>2</sup>                         |
| AWG signal line                         | 26   |
| Conductor structure signal line         | 7x 0.15 mm                                   |
| Core diameter including insulation      | 1.05 mm                                      |
| External cable diameter                 | 6.70 mm                                      |
| Wire colors                             | White-green, white-orange                    |
| External sheath, color                  | water blue RAL 5021                          |
| Insulation resistance                   | ≥ 5 GΩ*km                                    |
| Conductor resistance                    | ≤ 150 Ω/km                                   |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001) |
| Working capacitance                     | 42 pF  |
| Wave impedance                          | 100 Ω ±5% (At 100 MHz)                       |
| Signal speed                            | 0.72 c                                       |
| Shield attenuation                      | 60 dB (Up to 1000 MHz)                       |
| Coupling resistance                     | 5.00 mΩ/m (At 10 MHz)                        |

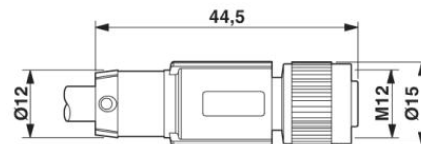
|   |   |
|---|---|
| Nominal voltage, conductor                    | max. 125 V  |
| Test voltage, conductor                       | 1000 V  |
| Twisted pairs                                 | 2 cores to the pair   |
| Type of pair shielding                        | Aluminum-lined polyester foil                                       |
| Overall twist                                 | Two pairs with two fillers to the core                              |
| Shielding                                     | Tinned copper braided shield  |
| Outer sheath, material                        | PUR   |
| Material conductor insulation                 | Cell PE   |
| Conductor material                            | Bare Cu litz wires  |
| Cable weight                                  | 42 kg/km  |
| Smallest bending radius, movable installation | 34 mm (cable, flexible installation)                                |
| Special properties                            | Free of substances which would hinder coating with paint or varnish |
| Flame resistance                              | complying with IEC 60332-2-2  |
| Halogen-free                                  | complying with IEC 60754-1/2  |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1                                 |
| Other resistance                              | Microbe resistance as per VDE 0282 section 10                       |
|   | Hydrolysis resistance as per DIN 53504                              |
| Concentration of fumes                        | in accordance with IEC 61034  |

### Diagrams/Drawings

#### Dimensioned drawing

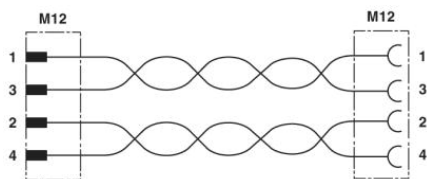


M12 x 1 male connector, straight, shielded



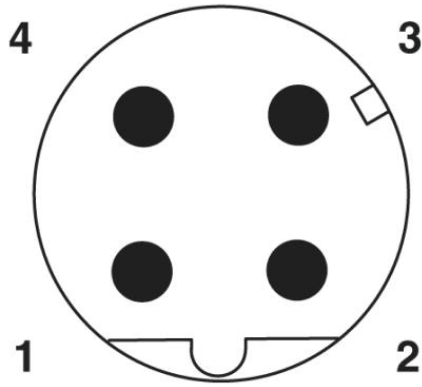
M12 x 1 female connector, straight, shielded

#### Circuit diagram

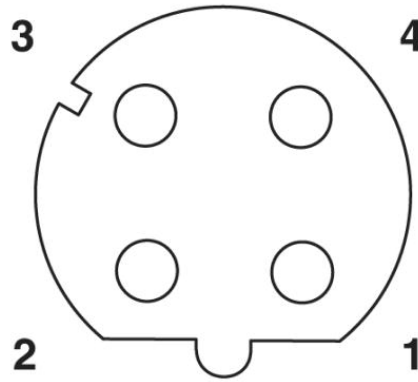


Schematic diagram

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Pin assignment M12 male connector, 4-pos., D-coded, male side



Pin assignment M12 female connector, 4-pos., D-coded, female side

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