

# SACCBP-M12FSD-4CON-M16/0,5-931

Order No.: 1534588



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1534588>

Bus system flush-type socket, ETHERNET, 4-pos., M12, shielded, D-coded, rear/screw mounting with M16 thread, with 0.5 m bus cable, 2 x 2 x 0.14 mm<sup>2</sup>

## Ethernet

### Commercial data

|                          |                    |
|--------------------------|--------------------|
| GTIN (EAN)               | 4 046356 026758    |
| sales group              | D125               |
| Pack                     | 1 pcs.             |
| Customs tariff           | 85444290           |
| Catalog page information | Page 182 (PC-2007) |

### Product notes

WEEE/RoHS-compliant since:  
03/28/2006



<http://www.download.phoenixcontact.com>  
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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     | ≤ 3 mΩ |

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Insulation resistance           | $\geq 100 \text{ M}\Omega$                           |
| Length of cable                 | 0.5 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     | IP67                |
| Contact material         | CuZn                |
| Contact surface material | Ni/Au               |
| Contact carrier material | PA 66               |
| Material, knurls         | Nickel-plated brass |
| Sealing material         | NBR                 |
| Status display           | No                  |
| Test voltage             | 2500 V              |

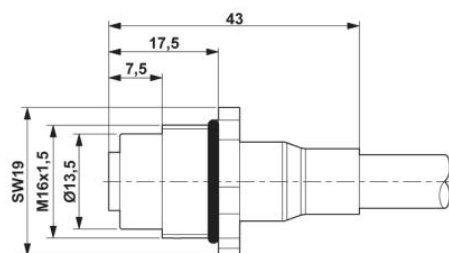
#### Conductor data

|                                    |                                          |
|------------------------------------|------------------------------------------|
| 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              | $\geq 5 \text{ G}\Omega \cdot \text{km}$ |
| Conductor resistance               | $\leq 150 \text{ }\Omega/\text{km}$      |
| Working capacitance                | 42 pF                                    |
| Wave impedance                     | 100 $\Omega \pm 5\%$ (At 100 MHz)        |
| Signal speed                       | 0.72 c                                   |
| Shield attenuation                 | 60 dB (Up to 1000 MHz)                   |
| Coupling resistance                | 5.00 m $\Omega/\text{m}$ (At 10 MHz)     |
| Nominal voltage, conductor         | max. 125 V                               |
| Test voltage, conductor            | 1000 V                                   |

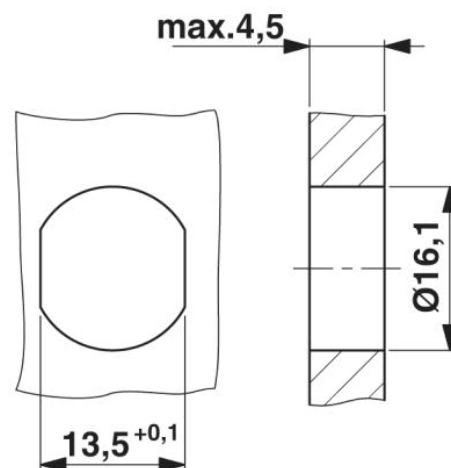
|                                               |                                                                                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------|
| Twisted 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)                                                            |
| Ambient temperature (operation)               | -40 °C ... 70 °C (cable, fixed installation)<br>-10 °C ... 50 °C (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<br>Hydrolysis resistance as per DIN 53504         |
| Concentration of fumes                        | in accordance with IEC 61034                                                                    |

## Diagrams/Drawings

### Dimensioned drawing

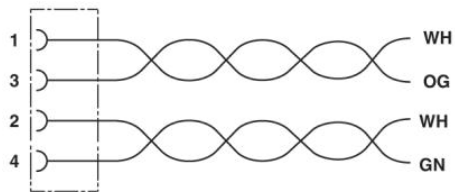


M12 flush-type connector



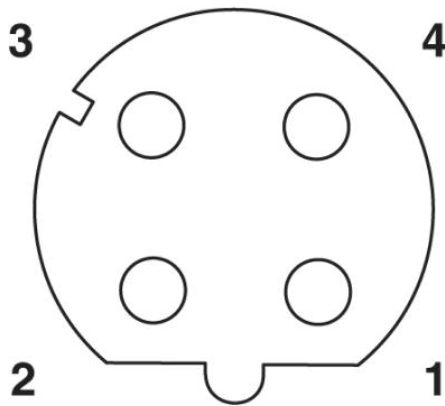
Housing cutout for M16 fastening thread,  
mounting panel with feed-through hole  
(alternatively with surface as protection  
against rotation)

#### Circuit diagram



Contact assignment of the M12 socket

#### Schematic diagram



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

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