

# SACC-DSI-FSD-4CON-L180/SH TQ - Device connector rear mounting



1456527

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Device connector rear mounting, Ethernet CAT5 (100 Mbps), 4-position, Socket, straight, M12-SPEEDCON, D-coding, Wave soldering, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## Your advantages

- Easy PCB assembly: one-piece connectors for wave soldering
- All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- For high transmission reliability: optional shield connection to the housing by means of shield contact

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1456527       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB26          |
| Product key                          | ABQEHB        |
| GTIN                                 | 4046356617185 |
| Weight per piece (including packing) | 14.2 g        |
| Weight per piece (excluding packing) | 13.259 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                    |  |
|--------------------|--|
| Notes on operation | The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration. |
| Order information: | Lock nut is included in the scope of delivery  |

### Mounting

|                   |  |
|-------------------|--|
| Mounting type     | Rear mounting (M16 x 1.5, with flat nut) |
| Tightening torque | 3 Nm ... 4 Nm (Installation-side)        |

### Product properties

|                     |                                   |
|---------------------|-----------------------------------|
| Product type        | Circular connectors (device side) |
| Application         | Data                              |
| Sensor type         | Ethernet                          |
| Number of positions | 4                                 |
| Shielded            | yes                               |
| Coding              | D                                 |
| Thread type         | M12                               |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 3  |

### Dimensions

|                          |      |
|--------------------------|------|
| Length of the solder pin | 6 mm |
|                          | 6 mm |

### Material specifications

|  |        |
|--|--------|
| Material Housing                       | GD-Zn  |
| Material Housing surface               | Ni     |
| Material Contact carrier               | PA 6.6 |
| Material Contact                       | CuZn   |
| Material Contact surface               | Ni/Au  |
| Material Seal                          | NBR    |
| Flammability rating according to UL 94 | V0     |

### Electrical properties

|                     |        |
|---------------------|--------|
| Rated surge voltage | 2.5 kV |
| Contact resistance  | ≤ 3 mΩ |

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|   |                       |
|---|-----------------------|
| Insulation resistance                   | ≥ 100 MΩ              |
| Nominal voltage U <sub>N</sub>          | 48 V AC               |
|   | 60 V DC               |
| Nominal current I <sub>N</sub>          | 4 A                   |
| Transmission speed                      | 100 Mbps              |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |

## Connection data

### Conductor connection

|                         |                                   |
|-------------------------|-----------------------------------|
| Connection method       | Wave soldering                    |
| Contact connection type | Socket                            |
| Tightening torque       | 3 Nm ... 4 Nm (Installation-side) |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|-------|

## Connector

### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Socket   |
| Head cable outlet | straight |
| Head thread type  | M12      |
| Head locking type | SPEEDCON |
| Coding            | D        |

## Cable/line

|                                |                         |
|--------------------------------|-------------------------|
| Signal type/category           | Ethernet CAT5, 100 Mbps |
| Wire diameter incl. insulation | 1 mm                    |

## Environmental and real-life conditions

### Ambient conditions

|   |   |
|---|---|
| Degree of protection  | IP67 (When plugged in)                          |
|   | IP65 (When plugged in)                          |
| Ambient temperature (operation) (fixed installation)              | -40 °C ... 70 °C (Plug / socket)                |
| Ambient temperature (operation) (flexible installation)           | -50 °C ... 70 °C (Cable, flexible installation) |
| Ambient temperature (operation) (male connector/female connector) | -20 °C ... 60 °C (cable, fixed installation)    |
| UL Type Rating  | Type 4 (indoor use only)                        |

## Standards and regulations

|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | M12 circular connector       |
| Standards/specifications | according to IEC 61076-2-101 |

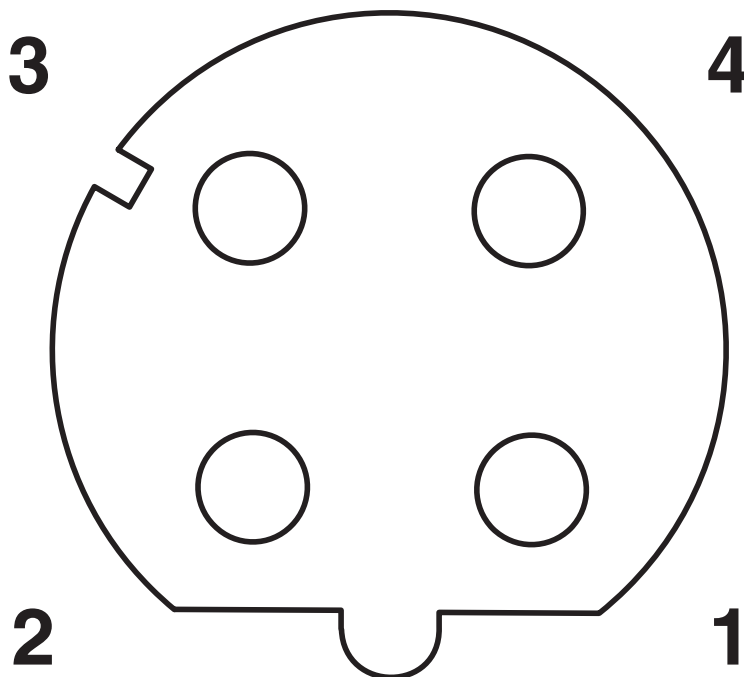
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## Drawings

Schematic diagram



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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1456527>

|  <b>UL Recognized</b><br>Approval ID: E118976-20100522 |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine   |                       |                       |                   |                      |
|   | 250 V                 | 4 A                   | 22                | -                    |

|  <b>cULus Recognized</b><br>Approval ID: E221474-20140616 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  |                       |                       |                   |                      |
|  | 250 V                 | 4 A                   | -                 | -                    |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440110 |
| ECLASS-15.0 | 27440110 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003568 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |      |
|---|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-50<br>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.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | cc2c59bc-2997-48c1-91c3-30cec86ccc3a |

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