

# SACC-DSI-MSD-4CON-L180 SCO - Device connector rear mounting



1551516

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Device connector rear mounting, 4-position, Pin, straight, M12-SPEEDCON, D-coding, Wave soldering, 0.34 mm<sup>2</sup>, 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
- SPEEDCON fast locking system reduces cabling times

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1551516       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB26          |
| Product key                          | ABQEGL        |
| GTIN                                 | 4046356153621 |
| Weight per piece (including packing) | 13.096 g      |
| Weight per piece (excluding packing) | 11.725 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 (Pg9, with locking nut) |
| Tightening torque | 2 Nm ... 3 Nm                         |

### Product properties

|                     |                                   |
|---------------------|-----------------------------------|
| Product type        | Circular connectors (device side) |
| Number of positions | 4                                 |
| Shielded            | no                                |
| Coding              | D                                 |
| Thread type         | M12                               |

### Insulation characteristics

|                     |    |
|---------------------|----|
| Ovvoltage 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 Insulating body               | PA 6.6 |
| Material Contact                       | CuZn   |
| Material Contact surface               | Au     |
| Material Seal                          | NBR    |
| Flammability rating according to UL 94 | V0     |

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Rated surge voltage   | 2.5 kV                     |
| Contact resistance    | $\leq 3 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 250 V                      |

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|                           |           |
|---------------------------|-----------|
| Nominal current $I_N$     | 4 A       |
| Max. conductor resistance | 57.6 mΩ/m |

## Connection data

### Conductor connection

|                         |                      |
|-------------------------|----------------------|
| Connection method       | Wave soldering       |
| Contact connection type | Pin                  |
| Conductor cross-section | 0.34 mm <sup>2</sup> |
| Tightening torque       | 2 Nm ... 3 Nm        |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | > 100 |
|-----------------------------|-------|

## Connector

### Connection 1

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

## Cable/line

|                                 |                      |
|---------------------------------|----------------------|
| Wire diameter incl. insulation  | 1.2 mm ±0.07 mm      |
| Cable cross section             | 0.34 mm <sup>2</sup> |
| Conductor structure signal line | 7x 0.25 mm           |
| AWG signal line                 | 22                   |
| Thickness, insulation           | 0.21 mm              |
| Nominal voltage, cable          | 300 V                |
| Test voltage, cable             | 2000 V AC            |
| Cable resistance                | ≤ 57.6 mΩ/m          |
| Cable insulation resistance     | ≥ 20 MΩ*km           |

## Environmental and real-life conditions

### Ambient conditions

|   |   |
|---|---|
| Degree of protection  | IP67 (When plugged in)  |
|   | IP65 (When unplugged)   |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket)<br>-40 °C ... 85 °C (without mechanical actuation) |
| UL Type Rating  | Type 4 (indoor use only)  |

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## Standards and regulations

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

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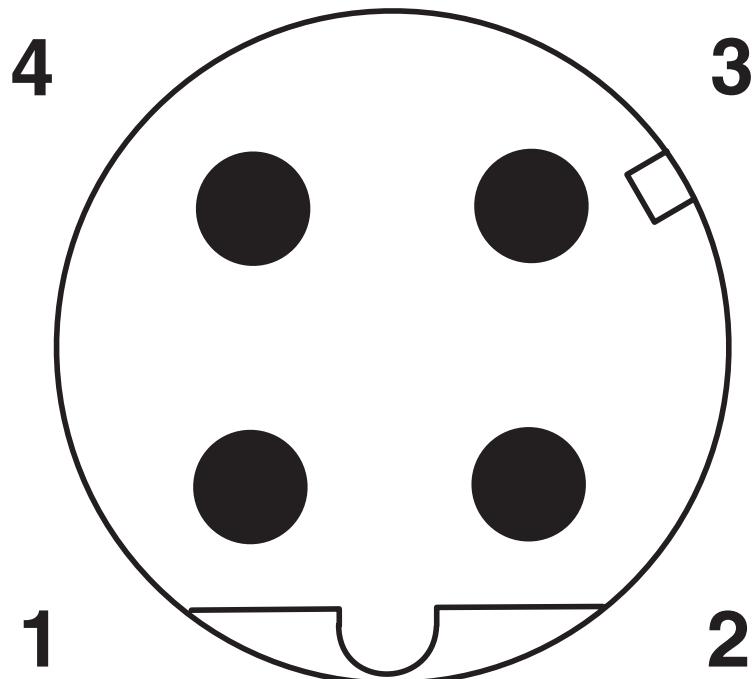


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## Drawings

Schematic diagram



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

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## Approvals

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| UL Recognized |  | 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                | -                    |

| cULus Recognized |  | 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 9.0 | 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><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                                | 9123dbbb-99df-43d1-9d39-b7f2834881cb |

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