

# SACC-DSI-MS-4CON-L180/SH RD - Device connector rear mounting



1457856

<https://www.phoenixcontact.com/us/products/1457856>

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Device connector rear mounting, 4-position, Pin, straight, M12-SPEEDCON, A-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                          | 1457856       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 20 pc         |
| Sales key                            | AB26          |
| Product key                          | ABQEGB        |
| GTIN                                 | 4046356617093 |
| Weight per piece (including packing) | 14.13 g       |
| Weight per piece (excluding packing) | 12.91 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                    |   |
|--------------------|---|
| Order information: | Lock nut is included in the scope of delivery |
|--------------------|---|

### Mounting

|               |  |
|---------------|--|
| Mounting type | Rear mounting (M16 x 1.5, with flat nut) |
|---------------|--|

### Product properties

|                      |                                   |
|----------------------|-----------------------------------|
| Product type         | Circular connectors (device side) |
| Application          | Data                              |
| Number of positions  | 4                                 |
| No. of cable outlets | 1                                 |
| Shielded             | yes                               |
| Coding               | A                                 |
| 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               | Au     |
| Material Seal                          | NBR    |
| Flammability rating according to UL 94 | V0     |
| Contact carrier color                  | red    |

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Contact resistance    | $\leq 3 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 250 V                      |
| Nominal current $I_N$ | 4 A                        |

### Connection data

|                      |
|----------------------|
| Conductor connection |
|----------------------|

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|                         |                |
|-------------------------|----------------|
| Connection method       | Wave soldering |
| Contact connection type | Pin            |

## Connector

### Connection 1

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

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection  | IP67 (When plugged in)<br>IP65 (When plugged in) |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C                                 |
| 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 of M12 male connector, 4-pos., A-coded, view of connector side

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## Approvals

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|  <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                                | bc4d8e34-ce1f-4823-a9a9-9c85de33a635 |

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