

SACC-DSI-MSD-4CON-L180/SH GN - Device connector rear mounting



1456556

<https://www.phoenixcontact.com/us/products/1456556>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Device connector rear mounting, 4-position, Pin, 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 | 1456556 |
| Packing unit | 20 pc |
| Minimum order quantity | 20 pc |
| Sales key | AB26 |
| Product key | ABQEGB |
| GTIN | 4046356617116 |
| Weight per piece (including packing) | 14.2 g |
| Weight per piece (excluding packing) | 12.941 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

SACC-DSI-MSD-4CON-L180/SH GN - Device connector rear mounting



1456556

<https://www.phoenixcontact.com/us/products/1456556>

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) |
| Tightening torque | 3 Nm ... 4 Nm (Installation-side) |

Product properties

| | |
|----------------------|-----------------------------------|
| Product type | Circular connectors (device side) |
| Application | Data |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| 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 |
| Contact carrier color | green |

Electrical properties

| | |
|---------------------|--------|
| Rated surge voltage | 2.5 kV |
|---------------------|--------|

SACC-DSI-MSD-4CON-L180/SH GN - Device connector rear mounting



1456556

<https://www.phoenixcontact.com/us/products/1456556>

| | |
|--------------------------------|----------|
| Contact resistance | ≤ 3 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage U _N | 250 V |
| Nominal current I _N | 4 A |

Connection data

Conductor connection

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

Connector

Connection 1

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

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 |

SACC-DSI-MSD-4CON-L180/SH GN - Device connector rear mounting

1456556

<https://www.phoenixcontact.com/us/products/1456556>

Drawings

Schematic diagram



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

SACC-DSI-MSD-4CON-L180/SH GN - Device connector rear mounting



1456556

<https://www.phoenixcontact.com/us/products/1456556>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1456556>

|  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 | - | - |

SACC-DSI-MSD-4CON-L180/SH GN - Device connector rear mounting



1456556

<https://www.phoenixcontact.com/us/products/1456556>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

SACC-DSI-MSD-4CON-L180/SH GN - Device connector rear mounting



1456556

<https://www.phoenixcontact.com/us/products/1456556>

Environmental product compliance

EU RoHS

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

China RoHS

| | |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50 |
| | 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 | ce42acb9-dad7-4d81-bbe3-becd6ef09122 |

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com