# SACC-DSI-MS-12CON-M12 SCO SH - Device connector rear mounting

1437106

https://www.phoenixcontact.com/us/products/1437106

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, 12-position, Pin, straight, M12-SPEEDCON, A-coding, Wave soldering, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## 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
- For high transmission reliability: optional shield connection to the housing by means of shield contact

## Commercial data

| | |
|---|---|
| Item number | 1437106 |
| Packing unit | 20 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB26 |
| Product key | ABQEGA |
| GTIN | 4046356449618 |
| Weight per piece (including packing) | 9.505 g |
| Weight per piece (excluding packing) | 8.284 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## 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 |
| General | Contact connection method: Crimp connection |

### Mounting

| | |
|---|---|
| Mounting type | Rear mounting (M12 x 1, with flat nut) |
| Tightening torque | 3 Nm ... 4 Nm (Installation-side) |

### Product properties

| | |
|---|---|
| Product type | Circular connectors (device side) |
| Number of positions | 12 |
| 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 |

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 0.8 kV |
| Contact resistance | ≤ 3 mΩ |
| Insulation resistance | ≥ 100 MΩ |

| | |
|---|---|
| Nominal voltage $U_N$ | 30 V |
| Nominal current $I_N$ | 1.5 A |

## Connection data

Conductor connection

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

## 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 | A |

## Environmental and real-life conditions

Ambient conditions

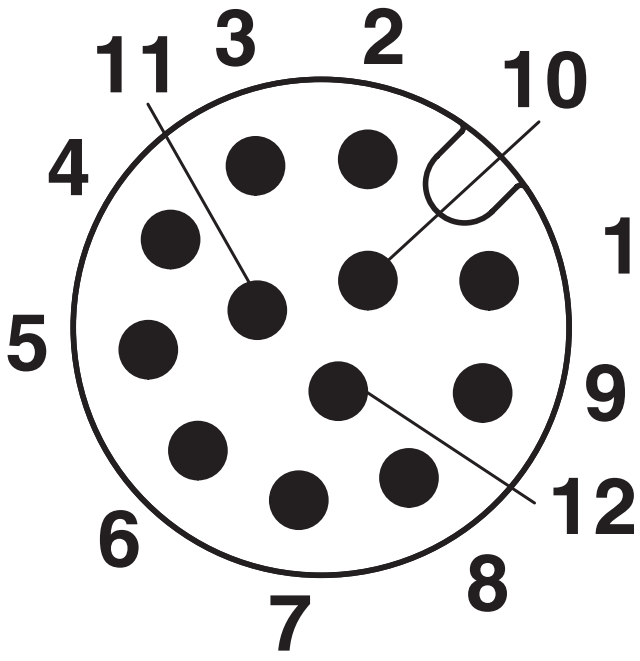
| | |
|---|---|
| Degree of protection | IP67 (When plugged in) |
| | IP65 (When plugged in) |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C |
| | -40 °C ... 85 °C (without mechanical actuation) |
| UL Type Rating | Type 4 (indoor use only) |

## Standards and regulations

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

## Drawings

Schematic diagram




Pin assignment M12 male connector, 12-pos., male side view

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1437106

**UL Recognized**
Approval ID: E118976-20100522

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 30 V | 1.5 A | 26 | - |

**cULus Recognized**
Approval ID: E221474-20140616

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 30 V | 1.5 A | 26 | - |

**cULus Recognized**
Approval ID: E221474-20140616

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 30 V | 1.5 A | - | - |

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |


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