

# SACC-DSI-M 8FS-3CON-M12/0,5 - Device connector rear mounting



1453449

<https://www.phoenixcontact.com/us/products/1453449>

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, 3-position, Socket, straight, M8, A-coding, on free cable end, Individual wires, cable length: 0.5 m, 0.25 mm<sup>2</sup>, PVC litz wire

## Your advantages

- Preassembled with litz wires for immediate use
- Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- Standard pin assignments and codings for signal transmission with a uniform design-in design

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1453449       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB22          |
| Product key                          | ABQIDC        |
| GTIN                                 | 4046356554411 |
| Weight per piece (including packing) | 19.4 g        |
| Weight per piece (excluding packing) | 18.2 g        |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

# SACC-DSI-M 8FS-3CON-M12/0,5 - Device connector rear mounting



1453449

<https://www.phoenixcontact.com/us/products/1453449>

## Technical data

### Mounting

|                   |  |
|-------------------|--|
| Mounting type     | Rear mounting (M12 x 1, with flat nut) |
| Tightening torque | 1 Nm ... 1.5 Nm (Installation-side)    |

### Product properties

|                      |                                   |
|----------------------|-----------------------------------|
| Product type         | Circular connectors (device side) |
| Application          | Signal                            |
| Number of positions  | 3                                 |
| No. of cable outlets | 1                                 |
| Shielded             | no                                |
| Coding               | A                                 |
| Thread type          | M8                                |

### Insulation characteristics

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

### Material specifications

|  |                          |
|--|--------------------------|
| Flammability rating according to UL 94 | HB                       |
| Seal material                          | FKM                      |
| Contact material                       | Cu alloy                 |
| Contact surface material               | Au                       |
| Contact carrier material               | PUR/PA 6.6               |
| Material for screw connection          | Brass, nickel-plated     |
| Conductor material                     | Tin-plated Cu litz wires |

### Electrical properties

|                           |                            |
|---------------------------|----------------------------|
| Rated surge voltage       | 1.5 kV                     |
| Contact resistance        | $\leq 3 \text{ m}\Omega$   |
| Insulation resistance     | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$     | 48 V AC<br>60 V DC         |
| Nominal current $I_N$     | 4 A                        |
| Max. conductor resistance | 80 $\Omega/\text{km}$      |

### Connection data

#### Conductor connection

|                         |                      |
|-------------------------|----------------------|
| Connection method       | Individual wires     |
| Contact connection type | Socket               |
| Conductor cross-section | 0.25 mm <sup>2</sup> |

# SACC-DSI-M 8FS-3CON-M12/0,5 - Device connector rear mounting



1453449

<https://www.phoenixcontact.com/us/products/1453449>

|                   |                                     |
|-------------------|-------------------------------------|
| Tightening torque | 1 Nm ... 1.5 Nm (Installation-side) |
|-------------------|-------------------------------------|

## Connector

### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Socket   |
| Head cable outlet | straight |
| Head thread type  | M8       |
| Coding            | A        |

### Connection 2

|             |                |
|-------------|----------------|
| Head design | free cable end |
|-------------|----------------|

## Cable/line

|                                 |   |
|---------------------------------|---|
| Cable length                    | 0.5 m   |
| Cable type                      | PVC litz wire   |
| Wire diameter incl. insulation  | 1.5 mm ±0.1 mm  |
| Single wire, color              | brown, blue, black  |
| Cable cross section             | 0.25 mm <sup>2</sup>  |
| Conductor material              | Tin-plated Cu litz wires  |
| Conductor structure signal line | 7x 0.20 mm  |
| AWG signal line                 | 24  |
| Material wire insulation        | PVC / UL  |
| Thickness, insulation           | 0.21 mm   |
| Nominal voltage, cable          | 300 V   |
| Test voltage, cable             | 2000 V AC   |
| Cable resistance                | ≥ 80 Ω/km   |
| Cable insulation resistance     | ≥ 20 MΩ*km  |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation)<br>-10 °C ... 105 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection  | IP67   |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Socket)                        |
| Ambient temperature (operation) (Cable, fixed installation)       | -40 °C ... 105 °C (cable, fixed installation)    |
| Ambient temperature (operation) (Cable, flexible installation)    | -10 °C ... 105 °C (Cable, flexible installation) |
| UL Type Rating  | Type 4 (indoor use only)                         |

## Standards and regulations

|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | M8 circular connector        |
| Standards/specifications | according to IEC 61076-2-104 |

# SACC-DSI-M 8FS-3CON-M12/0,5 - Device connector rear mounting

1453449

<https://www.phoenixcontact.com/us/products/1453449>

## Drawings

Schematic diagram



Pin assignment M8 socket, 3-pos., view female side

# SACC-DSI-M 8FS-3CON-M12/0,5 - Device connector rear mounting



1453449

<https://www.phoenixcontact.com/us/products/1453449>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1453449>

|  <b>cUL Recognized</b><br>Approval ID: E221474-20070307 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  |                       |                       |                   |                      |
|  | 30 V                  | 4 A                   | 24                | -                    |

|  <b>UL Recognized</b><br>Approval ID: E221474-20070307 |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine   |                       |                       |                   |                      |
|   | 30 V                  | 4 A                   | 24                | -                    |

# SACC-DSI-M 8FS-3CON-M12/0,5 - Device connector rear mounting



1453449

<https://www.phoenixcontact.com/us/products/1453449>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440103 |
| ECLASS-15.0 | 27440103 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003570 |
|-----------|----------|

### UNSPSC

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

# SACC-DSI-M 8FS-3CON-M12/0,5 - Device connector rear mounting



1453449

<https://www.phoenixcontact.com/us/products/1453449>

## 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                                | 98593356-7645-4490-9c3c-df67e8d5424b |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.911 kg CO2e |
|---------|---------------|

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](mailto:info@phoenixcon.com)