

## Flush-type connector - SACC-DSI-M12MSS-4CON-M16/0,5PE - 1424132

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Flush-type connector, Power, 4-position, Plug, M12, S power, Rear mounting, M16 x 1.5, Individual wires, cable length: 0.5 m

### Why buy this product

- ✓ For compact devices: transmit high power in a confined space
- ✓ Protection against mismatching thanks to S-coding
- ✓ Pre-assembled with litz wires for immediate use
- ✓ Customer-specific assemblies and litz wire lengths available
- ✓ Sealed on the litz wire side for optimum leak-tightness
- ✓ For high transmission safety: shield connection to the housing with optional EMC nut

RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 STK                                                                                                   |
| GTIN                                 | <br>4 046356 693370 |
| GTIN                                 | 4046356693370                                                                                           |
| Weight per Piece (excluding packing) | 60.000 g                                                                                                |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 0.5 m |
|-----------------|-------|

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| Degree of protection            | IP67                             |

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## Technical data

### General

|                             |                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note                        | 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. |
| Rated current at 40°C       | 12 A                                                                                                                                                                                                                                                                                                                                               |
| Rated voltage               | 630 V                                                                                                                                                                                                                                                                                                                                              |
| Rated surge voltage         | 6 kV                                                                                                                                                                                                                                                                                                                                               |
| Number of positions         | 4                                                                                                                                                                                                                                                                                                                                                  |
| Insulation resistance       | ≥ 100 MΩ                                                                                                                                                                                                                                                                                                                                           |
| Coding                      | S power                                                                                                                                                                                                                                                                                                                                            |
| Standards/regulations       | M12 connector IEC 61076-2-111 In line with                                                                                                                                                                                                                                                                                                         |
| Signal type/category        | Power                                                                                                                                                                                                                                                                                                                                              |
| Status display              | No                                                                                                                                                                                                                                                                                                                                                 |
| Overvoltage category        | III                                                                                                                                                                                                                                                                                                                                                |
| Degree of pollution         | 3                                                                                                                                                                                                                                                                                                                                                  |
| Connection method           | Individual wires                                                                                                                                                                                                                                                                                                                                   |
| Insertion/withdrawal cycles | > 100                                                                                                                                                                                                                                                                                                                                              |
| Mounting type               | Rear mounting M16 x 1.5 With flat nut                                                                                                                                                                                                                                                                                                              |

### Material

|                                        |                           |
|----------------------------------------|---------------------------|
| Flammability rating according to UL 94 | V0                        |
| Contact material                       | CuZn                      |
| Contact surface material               | Au                        |
| Contact carrier material               | PA                        |
| Material, knurls                       | CuZn alloy, nickel-plated |
| Sealing material                       | FKM                       |

### Cable

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Cable type                      | PP litz wire                                    |
| Conductor cross section         | 1.5 mm <sup>2</sup>                             |
| AWG signal line                 | 16                                              |
| Wire colors                     | Black 1, black 2, black 3, green/yellow         |
| Conductor material              | Bare Cu litz wires                              |
| Standards/specifications        | M12 connector IEC 61076-2-111 In line with      |
| Flame resistance                | in acc. with UL FT-2                            |
| Halogen-free                    | According to VDE 0282-13 Appendix C             |
| Ambient temperature (operation) | -40 °C ... 85 °C (without mechanical actuation) |
|                                 | -40 °C ... 90 °C (cable, fixed installation)    |
|                                 | -30 °C ... 90 °C (cable, flexible installation) |

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## Technical data

### Standards and Regulations

|                                        |                                     |
|----------------------------------------|-------------------------------------|
| Standard designation                   | M12 connector                       |
| Standards/regulations                  | IEC 61076-2-111                     |
| Halogen-free                           | According to VDE 0282-13 Appendix C |
| Flame resistance                       | in acc. with UL FT-2                |
| Flammability rating according to UL 94 | V0                                  |

### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

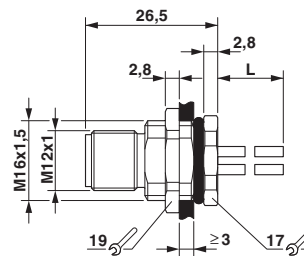
## Drawings

Schematic diagram



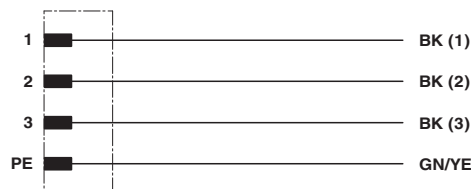
Connector pin assignment of M12 plug, 4-pos., S-coded, view of pin side

Dimensional drawing



M12 flush-type plug

Circuit diagram



Contact assignment

## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27140815 |
| eCl@ss 4.1 | 27140815 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27440103 |
| eCl@ss 9.0 | 27440102 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002062 |
| ETIM 5.0 | EC002061 |
| ETIM 6.0 | EC002061 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 39121413 |

## Approvals


### Approvals

#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

#### Ex Approvals


### Approval details

|                            |                                                                                     |                                                                                                                                                       |               |
|----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Listed                  |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 468743 |
| mm <sup>2</sup> /AWG/kcmil | 16                                                                                  |                                                                                                                                                       |               |
| Nominal current IN         | 12 A                                                                                |                                                                                                                                                       |               |


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## Approvals

|                    |       |
|--------------------|-------|
| Nominal voltage UN | 600 V |
|--------------------|-------|

|                            |                                                                                   |                                                                                                                                                       |               |
|----------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Listed                 |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 468743 |
| mm <sup>2</sup> /AWG/kcmil | 16                                                                                |                                                                                                                                                       |               |
| Nominal current IN         | 12 A                                                                              |                                                                                                                                                       |               |
| Nominal voltage UN         | 600 V                                                                             |                                                                                                                                                       |               |

|     |                                                                                   |         |
|-----|-----------------------------------------------------------------------------------|---------|
| EAC |  | B.01742 |
|-----|-----------------------------------------------------------------------------------|---------|

|              |                                                                                    |
|--------------|------------------------------------------------------------------------------------|
| cULus Listed |  |
|--------------|------------------------------------------------------------------------------------|