

# SACC-DSI-M12FST-4P-M16XL/0,2 - Device connector, rear mounting



1426488

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Device connector, rear mounting, Power, 4-position, Socket, M12, coding: T, on free cable end, Rear mounting, M16 x 1.5, Individual wires, cable length: 0.2 m, 1.31 mm<sup>2</sup>, UL/cUL stranded hook-up wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239582

## Your advantages

- For compact devices: transmit high power in a confined space
- Easy-to-install, optimized XL housing contour with wrench size 19
- Mechanical tightening limitation for long-term-stable gasket
- 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
- For high transmission safety: shield connection to the housing with optional EMC nut

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1426488                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB27                           |
| Product key                          | ABQCHG                         |
| GTIN                                 | 4055626462400                  |
| Weight per piece (including packing) | 34.45 g                        |
| Weight per piece (excluding packing) | 32.5 g                         |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

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## Technical data

### Notes

|         |  |
|---------|--|
| General | 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. |
| General | Lock nut is included in the scope of delivery  |

### Mounting

|                       |                       |
|-----------------------|-----------------------|
| Mounting type         | Rear mounting         |
| Assembly instructions | Tightening limitation |
| Connection method     | Individual wires      |

### Product properties

|                      |                                   |
|----------------------|-----------------------------------|
| Product type         | Circular connectors (device side) |
| Sensor type          | Power                             |
| Number of positions  | 4                                 |
| No. of cable outlets | 1                                 |
| Shielded             | no                                |
| Coding               | T                                 |
| Thread type          | M12                               |

### Insulation characteristics

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

### Material specifications

|  |                              |
|--|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Seal material                          | FKM                          |
| Contact material                       | CuZn                         |
| Contact surface material               | Au                           |
| Contact carrier material               | PA                           |
| Material for screw connection          | Zinc die-cast, nickel-plated |
| Conductor material                     | Bare 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 $U_N$ | 63 V DC                    |
| Nominal current $I_N$ | 12 A                       |

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|              |        |
|--------------|--------|
| Test voltage | 1.5 kV |
|--------------|--------|

## Connection data

### Conductor connection

|                         |                  |
|-------------------------|------------------|
| Connection method       | Individual wires |
| Contact connection type | Socket           |
| Conductor cross section | 1.31 mm²         |
| Tightening torque       | 0.8 Nm<br>1.3 Nm |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | > 100 |
|-----------------------------|-------|

## Connector

### Connection 1

|                  |        |
|------------------|--------|
| Head design      | Socket |
| Head thread type | M12    |
| Coding           | T      |

### Connection 2

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

## Cable/line

|                                 |   |
|---------------------------------|---|
| Cable length                    | 0.2 m   |
| Cable type                      | UL/cUL stranded hook-up wire  |
| Signal type/category            | Power   |
| Wire diameter incl. insulation  | 2 mm  |
| Single wire, color              | black, brown, blue, white   |
| Conductor material              | Bare Cu litz wires  |
| AWG signal line                 | 16  |
| Material wire insulation        | mPPE  |
| Halogen-free                    | yes   |
| Flame resistance                | in acc. to UL 1581 VW1  |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation)<br>-20 °C ... 105 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|                      |   |
|----------------------|---|
| Degree of protection | IP67<br>IP65/IP67<br>-25 °C ... 85 °C (Plug / socket) |
|----------------------|---|

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|                                 |  |
|---------------------------------|--|
| Ambient temperature (operation) | -20 °C ... 105 °C (Cable, flexible installation) |
|                                 | -40 °C ... 105 °C (cable, fixed installation)    |

## Standards and regulations

|                  |                        |
|------------------|------------------------|
| Flame resistance | in acc. to UL 1581 VW1 |
|------------------|------------------------|

### M12

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M12 connector   |
| Standards/specifications | IEC 61076-2-111 |
| Note                     | In line with    |

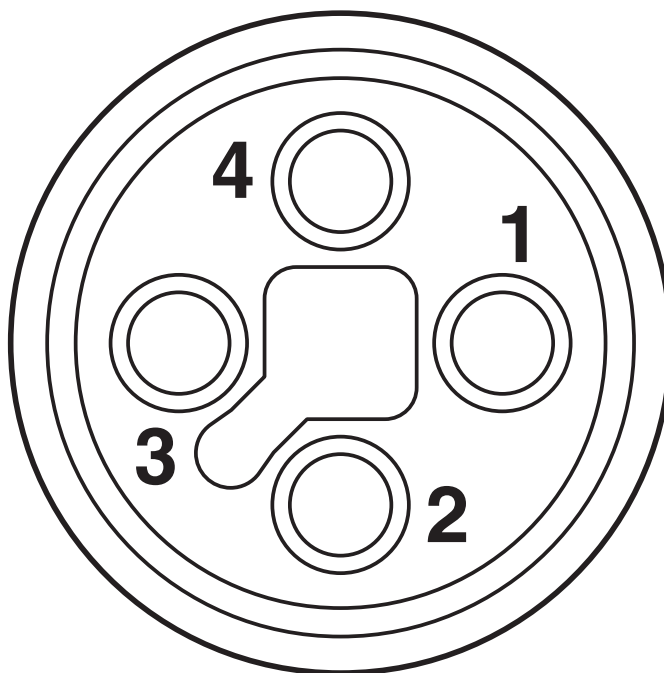
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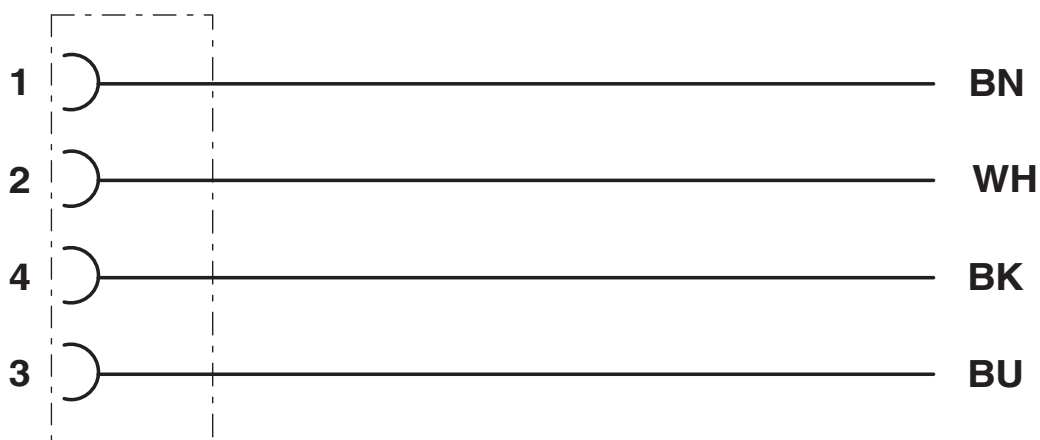
## Drawings

Schematic diagram



Pin assignment of M12 socket, 4-pos., T-coded, socket side view

Circuit diagram

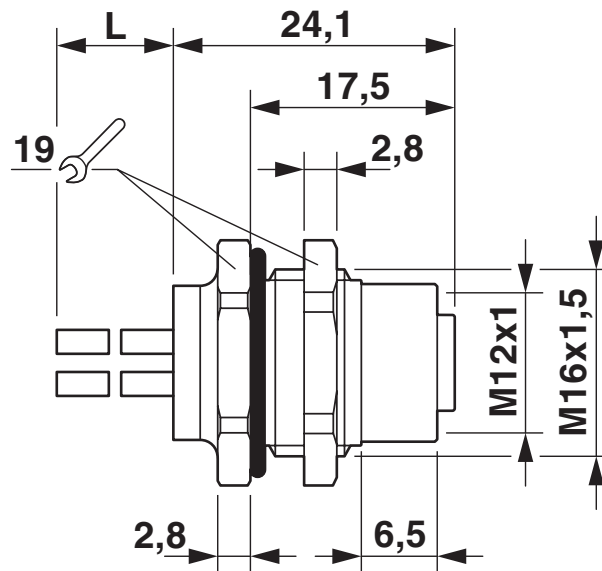


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Dimensional drawing



M12 flush-type plug

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## Approvals

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**EAC**

Approval ID: B.01687



**cUL Recognized**

Approval ID: E468743-20190917

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 63 V                  | 12 A                  | - 16              | -                           |



**UL Recognized**

Approval ID: E468743-20190917

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 63 V                  | 12 A                  | - 16              | -                           |

**cULus Recognized**

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC002635 |
|----------|----------|

### UNSPSC

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



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Environmental product compliance

|            |  |
|------------|--|
| REACH SVHC | Lead 7439-92-1   |
| China RoHS | Environmentally Friendly Use Period = 50 years   |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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