# Flush-type connector - SACC-SQ-M12FS-8CON-20-L180 - 1408573

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Sensor/actuator flush-type connector, 8-pos. socket, M12, A-coded, front/square flange mounting, wave soldering

## Your advantages

- M12 PCB connector that can be soldered directly with integrated torsion protection and shield connection
- Easy PCB assembly: one-piece connectors for wave soldering
- Standard pin assignments for signal and power transmission with a uniform design-in design
- SPEEDCON fast locking system reduces cabling times

## Key Commercial Data

| | |
|---|---|
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| GTIN | 4 046356 826464 |
| GTIN | 4046356826464 |

## Technical data

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| | -40 °C ... 85 °C (without mechanical actuation) |
| | -25 °C ... 85 °C (Plug / socket) |
| Degree of protection | IP20 |

### 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 | 2 A |
| Rated voltage | 30 V |

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## Technical data

### General

| | |
|---|---|
| Rated surge voltage | 0.8 kV |
| Number of positions | 8 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Signal type/category | Universal |
| Status display | No |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Connection method | Solder pins |
| Insertion/withdrawal cycles | > 100 |
| Torque | 3 Nm ... 4 Nm (Installation-side) |
| Mounting type | Front mounting Square flange 20 mm side length |
| Thread type | Square flange |

### Material

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PA 6.6 |
| Material, knurls | Zinc die-cast, tin-plated |
| Sealing material | FKM |

### Cable

| | |
|---|---|
| Conductor cross section | 0.25 mm² |
| Conductor structure signal line | 14x 0.15 mm |
| Core diameter including insulation | 1.15 mm ±0.07 mm |
| Thickness, insulation | 0.21 mm |
| Standards/specifications | M12 connector IEC 61076-2-101 |
| Insulation resistance | ≥ 20 MΩ*km |
| Conductor resistance | ≤ 57.6 mΩ/m |
| Nominal voltage, cable | 300 V |
| Test voltage, cable | 2000 V AC |
| Ambient temperature (operation) | -40 °C ... 85 °C (cable, fixed installation) |
| | -25 °C ... 85 °C (Cable, flexible installation) |

### Standards and Regulations

| | |
|---|---|
| Standards/specifications | M12 connector IEC 61076-2-101 |
| Flammability rating according to UL 94 | V0 |
| Standards/specifications | M12 connector IEC 61076-2-101 |

### Environmental Product Compliance

| | |
|---|---|
| REACh SVHC | Lead 7439-92-1 |

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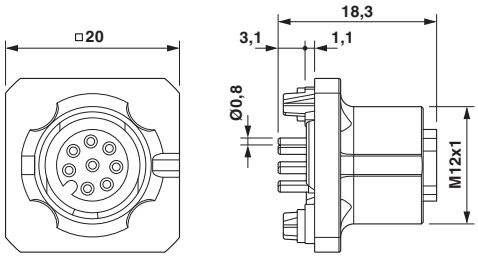
## Technical data

### Environmental Product Compliance

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

## Drawings

Dimensional drawing




M12 flush-type socket, square flange

## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 10.0.1 | 27440102 |
| eCl@ss 11.0 | 27440102 |
| eCl@ss 4.0 | 27140800 |
| eCl@ss 4.1 | 27140800 |
| eCl@ss 5.0 | 27143400 |
| eCl@ss 5.1 | 27143400 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27440103 |
| eCl@ss 9.0 | 27440102 |

### ETIM

| | |
|---|---|
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002062 |
| ETIM 6.0 | EC002061 |
| ETIM 7.0 | EC002635 |

### UNSPSC

| | |
|---|---|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 39121413 |
| UNSPSC 18.0 | 39121413 |

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## Classifications

### UNSPSC

| | |
|---|---|
| UNSPSC 19.0 | 39121413 |
| UNSPSC 20.0 | 39121413 |
| UNSPSC 21.0 | 39121413 |

## Approvals

### Approvals

Approvals

UL Recognized / EAC / cULus Recognized

Ex Approvals

### Approval details

UL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 118976

| | |
|---|---|
| Nominal voltage UN | 30 V |
| Nominal current IN | 2 A |
| mm²/AWG/kcmil | 24 |

EAC B.01687

cULus Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E221474-20140616

| | |
|---|---|
| Nominal voltage UN | 30 V |
| Nominal current IN | 2 A |
| mm²/AWG/kcmil | 24-22 |

## Accessories

### Accessories

Plug for cable screw gland

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## Accessories

Screw plug - PROT-M12 - 1680539



An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

Screw plug - PROT-M12 SH - 1503302



An M12 screw plug for the unoccupied M12 sockets of the shielded sensor/actuator cable, boxes and flush-type connectors

Screw plug - PROT-M12 FB - 1555538



M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry

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