

Flush-type connector - SACC-CI-M12MSS-4CON-L180 THR PE - 1406410

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Flush-type connector, Universal, 4-position, Plug, straight, S power, PCB mounting, THR solder connection, 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.

Your advantages

- ✓ For compact devices: transmit high power in a confined space
- ✓ Reduced mounting costs thanks to two-piece device connector
- ✓ All common pin assignments and codings available
- ✓ Easy device integration thanks to mechanical port screw connections with threaded attachment, press-in contour or direct integration in the front plate
- ✓ Additional gasket for the device when not plugged in
- ✓ Packaging available for automated pick and place assembly



Key Commercial Data

| | |
|------------------------|---------------|
| Packing unit | 20 pc |
| Minimum order quantity | 20 pc |
| GTIN | |
| GTIN | 4046356804332 |

Technical data

Ambient conditions

| | |
|---------------------------------|--|
| Ambient temperature (operation) | -25 °C ... 105 °C |
| | -40 °C ... 105 °C (without mechanical actuation) |
| | -25 °C ... 105 °C |
| Degree of protection | IP67 (correctly plugged in and locked) |

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 |
|------|--|

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Technical data

General

| | |
|-----------------------------|---|
| | 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 | Universal |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Connection method | THR solder connection |
| Insertion/withdrawal cycles | > 100 |
| Mounting type | PCB mounting |

Material

| | |
|--|------|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PA4T |
| Sealing material | FKM |

Cable

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

Standards and Regulations

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

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

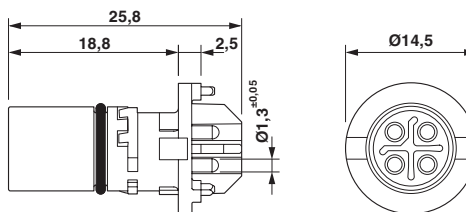
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Schematic diagram



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

Dimensional drawing



M12 flush-type connector

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

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

Approvals

Approvals

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Approvals

Approvals

EAC / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approval details

| | | |
|-----|--|---------|
| EAC | | B.01687 |
|-----|--|---------|

| | | |
|----------------------------|--|--|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E468743-20190917 |
| Nominal voltage UN | | 600 V |
| Nominal current IN | | 12 A |
| mm ² /AWG/kcmil | | 16 |

| | | |
|----------------------------|--|--|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E468743-20190917 |
| Nominal voltage UN | | 600 V |
| Nominal current IN | | 12 A |
| mm ² /AWG/kcmil | | 16 |

| | |
|------------------|--|
| cULus Recognized | |
|------------------|--|

Accessories

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Contact insert

Flush-type connector - SACC-CI-M12MSS-4CON-L180 THR PE - 1406410

Accessories

Sample set - SACC-CI-M12MSS-4CON-L180THR PE SP - 1420412



Sample set, Universal, 4-position, Plug, straight, S power, PCB mounting, THR solder connection, 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.

Panel mounting base

Housing screw connection - SACC-M12-SCO PLUG - 1551493



M12 SPEEDCON housing screw connection for M12 male inserts, with O-ring, for all SPEEDCON-capable THR and wave soldering contact carriers

Housing screw connection - SACC-DSIV-M12-PLUG - 1416145



Housing screw connection with M12 standard thread, with O-ring, for the two-piece straight M12 THR contact carrier and for the two-piece angled M12 contact carrier

Housing screw connection - SACC-M12-SCO PLUG L90 - 1436709



M12-SPEEDCON housing screw connection for M12 male inserts, with flat gasket, for all Speedcon-compatible THR and wave soldering contact carriers

Housing screw connection - SACC-BP-M-M12/M15-6-THR - 1413997



Housing screw connection, Plug, M12, Rear mounting, M15 x 1, 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.

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Accessories

Housing screw connection - SACC-BP-M-M12/M15-7-THR - 1413996



Housing screw connection, Plug, M12, Rear mounting, M15 x 1, 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.

Housing screw connection - SACC-BP-M-M12/M15-6-THR SCO - 1413999



M12 SPEEDCON housing screw connection for M12 male inserts, with O-ring, for all SPEEDCON-capable THR and wave soldering contact carriers

Housing screw connection - SACC-BP-M-M12/M15-7-THR SCO - 1413998



Housing screw connection, Plug, M12-SPEEDCON, Rear mounting, M15 x 1, 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.

Housing screw connection - SACC-M12 PLUG PRESS - 1437892



M12 pin, housing screw connection, press-in version, for all Speedcon-compatible THR and wave soldering contact carriers

Housing screw connection - SACC-DSIV-M12-PLUG-9 THR - 1417984



M12 pin, front mounting THR with M14 screw fastening

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Accessories

Housing screw connection - SACC-BP-M-M12-THR PP - 1027661



Housing screw connection, Plug, M12-Push-Pull, Rear mounting, THR- und Wellenlötkontakte, 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.

Housing screw connection - SACC-FP-M-M12-THR PP - 1027679



Housing screw connection, Plug, M12-Push-Pull, Front mounting, THR- und Wellenlötkontakte, 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.

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