

## Flush-type connector - SACC-CIP-M12FS-12P SMD SH T - 1411954

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Flush-type connector, 12-position, Socket, straight, M12, A - standard, PCB mounting, SMD

### Your advantages

- ✓ Reduced mounting costs thanks to two-piece device connector
- ✓ Packaging available for automated pick and place assembly
- ✓ 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



### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 60 pc                                                                                                   |
| Minimum order quantity | 60 pc                                                                                                   |
| GTIN                   | <br>4 046356 991520 |
| GTIN                   | 4046356991520                                                                                           |

### Technical data

#### Ambient conditions

|                                 |                                                  |
|---------------------------------|--------------------------------------------------|
| Ambient temperature (operation) | -25 °C ... 105 °C (Plug / socket)                |
|                                 | -40 °C ... 105 °C (without mechanical actuation) |
| 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 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 | 1.5 A                                                                                                                                                                                                                                                                                                                                              |
| Rated voltage         | 30 V                                                                                                                                                                                                                                                                                                                                               |

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## Technical data

### General

|                             |                                            |
|-----------------------------|--------------------------------------------|
| Rated surge voltage         | 0.8 kV                                     |
| Number of positions         | 12                                         |
| Insulation resistance       | $\geq 100 \text{ M}\Omega$                 |
| Coding                      | A - standard                               |
| Standards/regulations       | M12 connector IEC 61076-2-101 In line with |
| Overvoltage category        | III                                        |
| Degree of pollution         | 3                                          |
| Connection method           | SMD                                        |
| Insertion/withdrawal cycles | > 100                                      |
| Mounting type               | PCB mounting                               |
| Type of packaging           | Tray                                       |

### Material

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

### Cable

|                          |                                            |
|--------------------------|--------------------------------------------|
| Standards/specifications | M12 connector IEC 61076-2-101 In line with |
|--------------------------|--------------------------------------------|

### Standards and Regulations

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

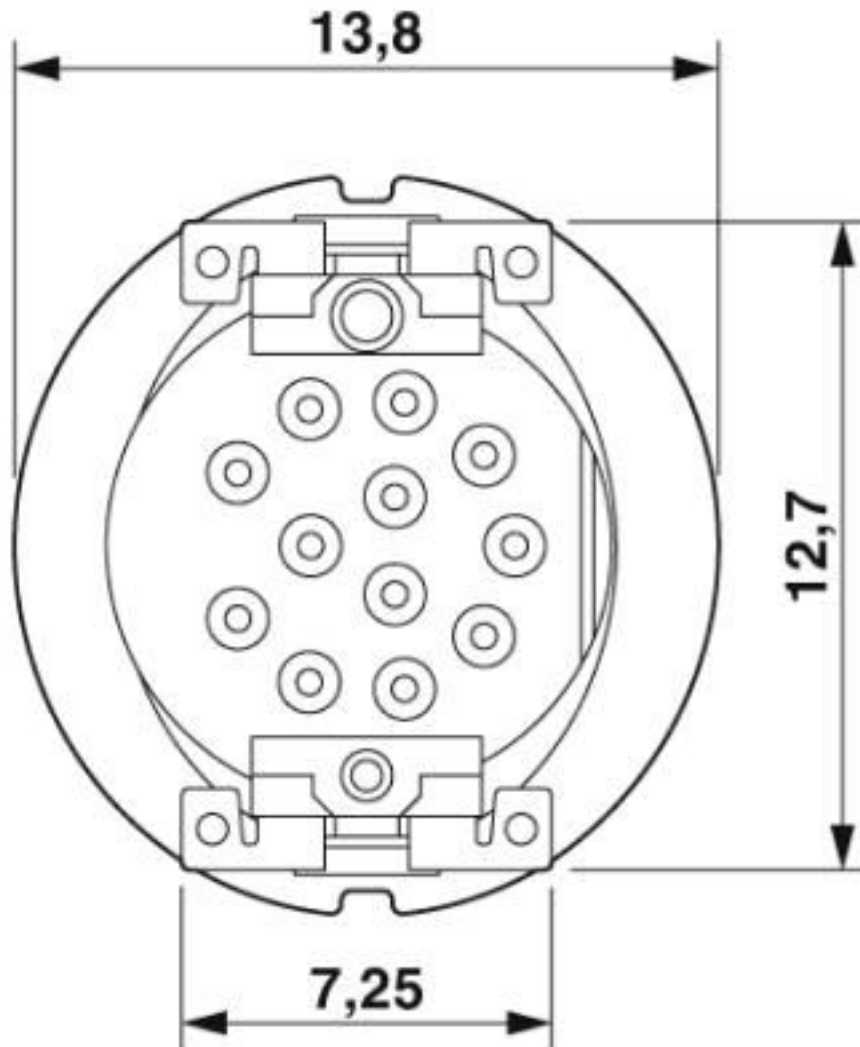
### Environmental Product Compliance

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

## Flush-type connector - SACC-CIP-M12FS-12P SMD SH T - 1411954

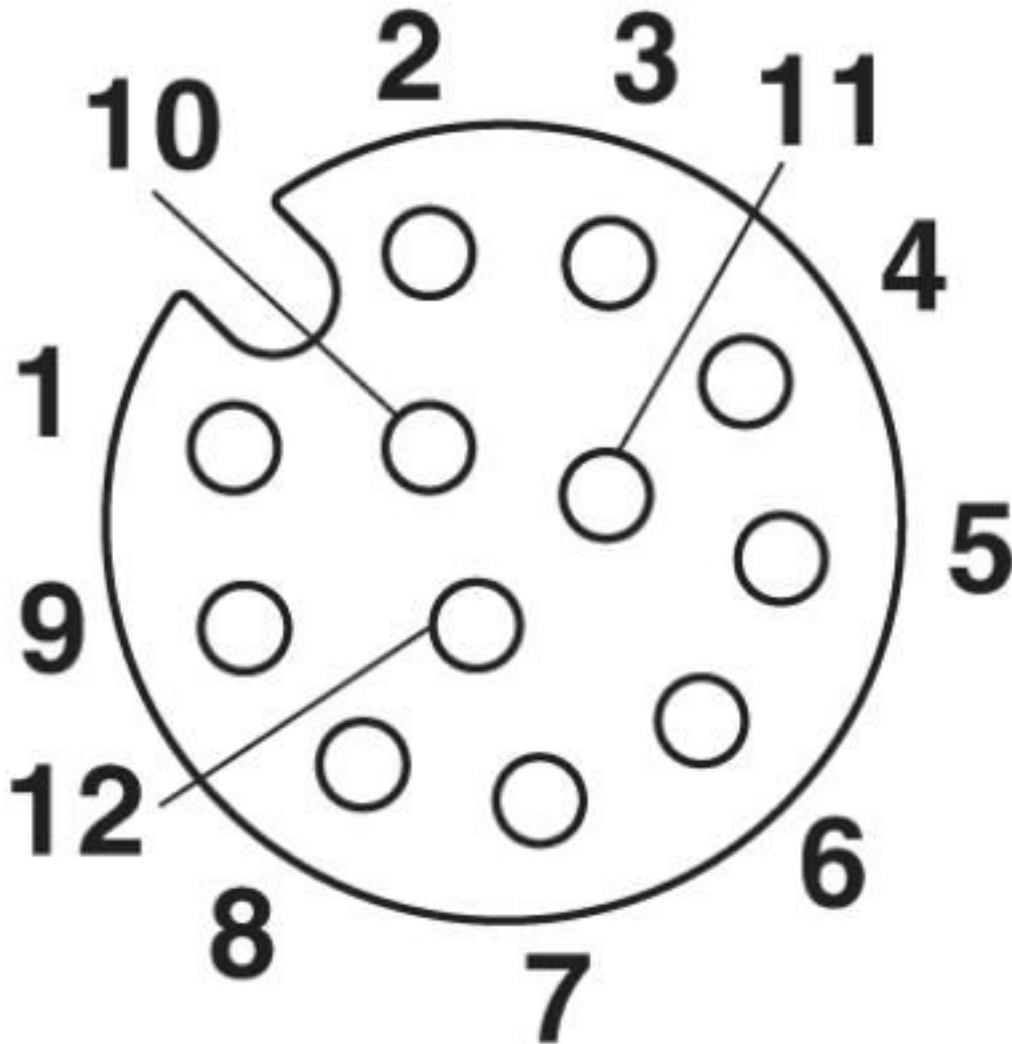
Dimensional drawing



View of solder side

## Flush-type connector - SACC-CIP-M12FS-12P SMD SH T - 1411954

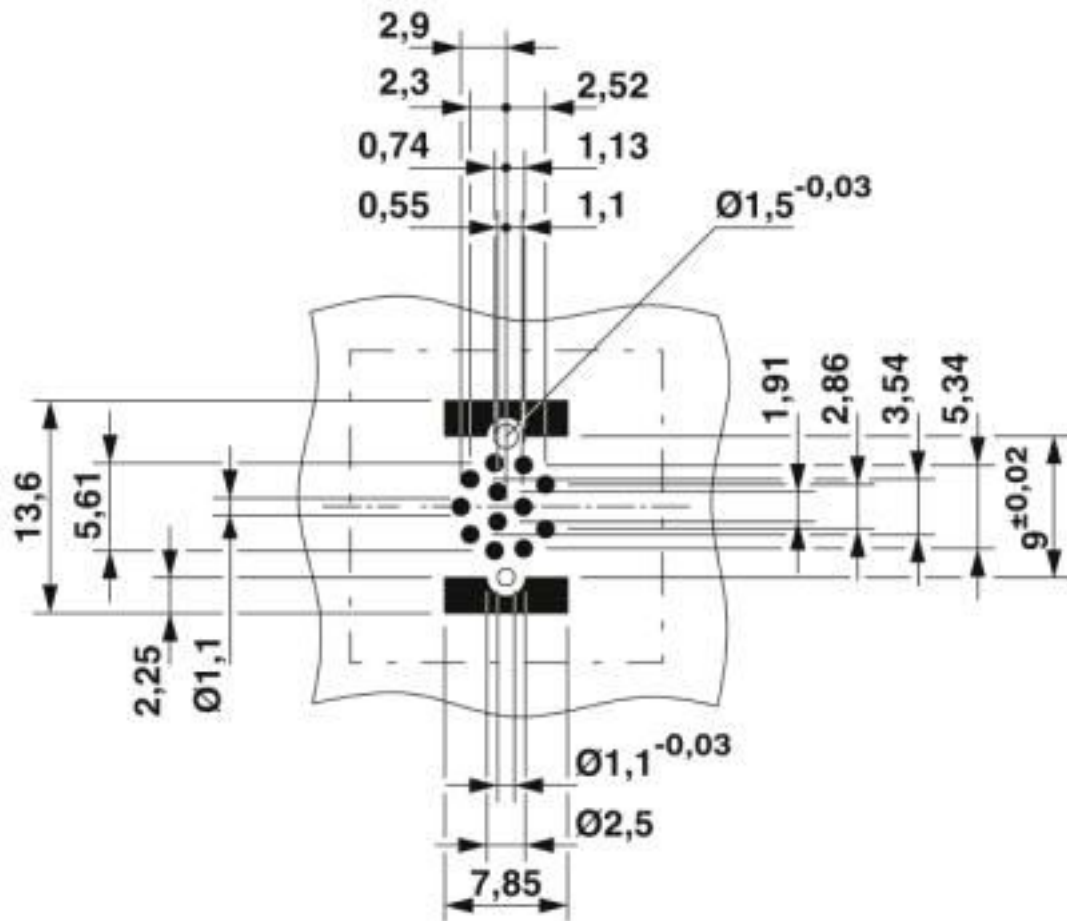
Schematic diagram



Pin assignment M12 socket, 12-pos., A-coded, view female side

## Flush-type connector - SACC-CIP-M12FS-12P SMD SH T - 1411954

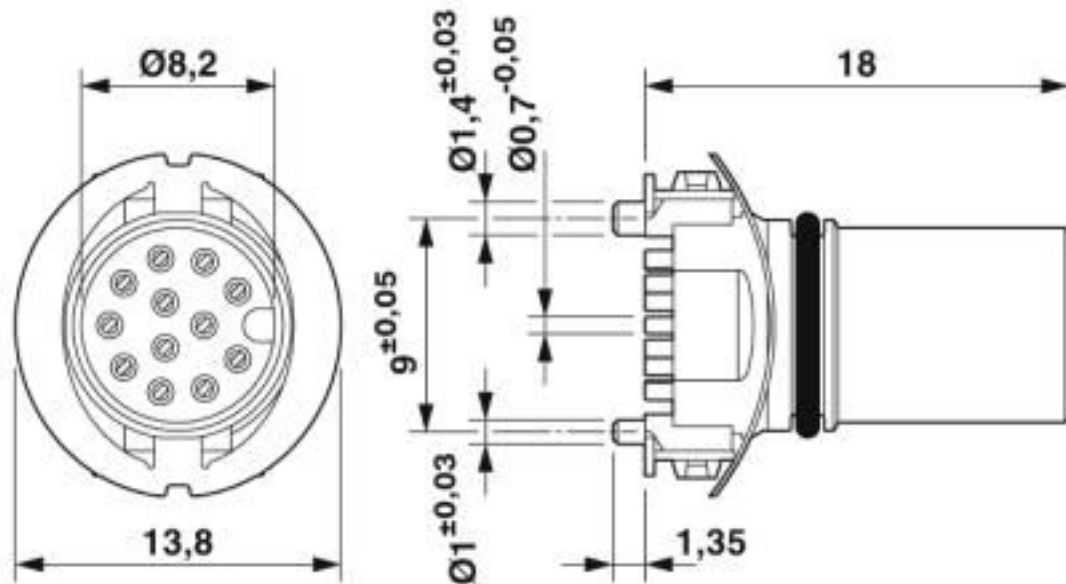
Drilling diagram



Soldering pad geometry

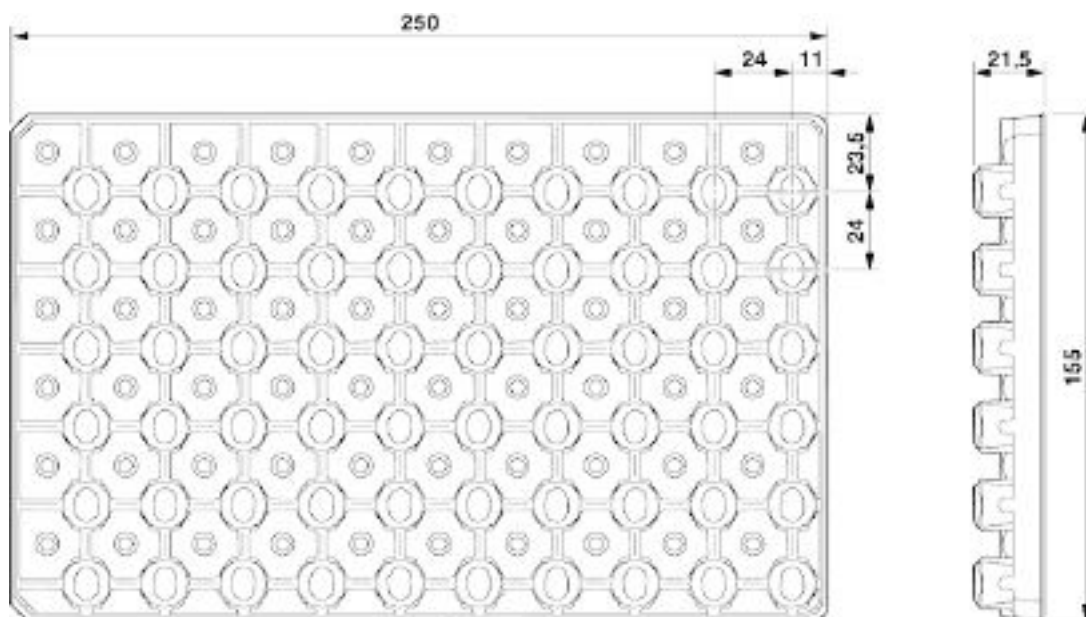
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Dimensional drawing



M12 socket, straight

Dimensional drawing



SMD tray packaging

### Classifications

eCI@ss

|               |          |
|---------------|----------|
| eCI@ss 10.0.1 | 27440102 |
| eCI@ss 4.0    | 27140800 |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| 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 8.0 | 27440103 |
| eCl@ss 9.0 | 27440102 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC002061 |
| ETIM 6.0 | EC002061 |

#### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 13.2 | 39121413 |
| UNSPSC 18.0 | 39121413 |
| UNSPSC 19.0 | 39121413 |
| UNSPSC 20.0 | 39121413 |
| UNSPSC 21.0 | 39121413 |

### Approvals

#### Approvals

#### Approvals

EAC / cULus Recognized

#### Ex Approvals

#### Approval details

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

|                    |                                                                                     |                                                                                                                                                                        |
|--------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cULus Recognized   |  | <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> E221474-20160506 |
| Nominal voltage UN | 30 V                                                                                |                                                                                                                                                                        |
| Nominal current IN | 1.5 A                                                                               |                                                                                                                                                                        |

## Flush-type connector - SACC-CIP-M12FS-12P SMD SH T - 1411954

### Accessories

#### Accessories

##### Circular connectors (device side)

##### Housing screw connection - SACC-BP-F-M12/SMD-0,9/1,6-9TIP - 1419569



M12 threaded sleeve with tolerance-compensating function, for straight, SMD-solderable M12 socket contact inserts. Suitable for 0.9 mm ... 1.6 mm thick front plates.

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##### Housing screw connection - SACC-BP-F-M12/SMD-1,6/2,3-9TIP - 1419570



M12 threaded sleeve with tolerance-compensating function, for straight, SMD-solderable M12 socket contact inserts. Suitable for 1.6 mm ... 2.3 mm thick front plates.

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##### Housing screw connection - SACC-BP-F-M12/SMD-2,3/3,0-9TIP - 1419571



M12 threaded sleeve with tolerance-compensating function, for straight, SMD-solderable M12 socket contact inserts. Suitable for 2.3 mm ... 3.0 mm thick front plates.

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### Contact insert

##### Sample set - SACC-CIP-M12FS-12P SMD SH-SP - 1418639



Sample set, 12-position, Socket, straight, M12, A - standard, PCB mounting, SMD

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### Panel mounting base

##### Housing screw connection - SACC-BP-F-M12/M15-6-SMD - 1414021



Housing screw connection, Socket, M12, Rear mounting, M15 x 1

## Flush-type connector - SACC-CIP-M12FS-12P SMD SH T - 1411954

### Accessories

Housing screw connection - SACC-BP-F-M12/M15-6-SMD SCO - 1414023



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

Housing screw connection - SACC-FP-F-M12/M14 SMD - 1412079



M12 female connector, front mounting SMD with M14 screw fastening

Housing screw connection - SACC-FP-F-M12/PRESS SMD - 1412081



Housing screw connection, socket, for the two-part M12 SMD connector, for press-in mounting.

Housing screw connection - SACC-BP-F-FIX/NUT-BK-SMD - 1419568



Fixing sleeve for M12 housing screw connection with tolerance-compensating function, for SMD-solderable M12 socket contact inserts.

Housing screw connection - SACC-BP-F-FIX/NUT-CY-SMD - 1419565



Fixing sleeve for M12 housing screw connection with tolerance-compensating function, for SMD-solderable M12 socket contact inserts.

## Flush-type connector - SACC-CIP-M12FS-12P SMD SH T - 1411954

### Accessories

Housing screw connection - SACC-BP-F-FIX/NUT-GN-SMD - 1419566



Fixing sleeve for M12 housing screw connection with tolerance-compensating function, for SMD-solderable M12 socket contact inserts.

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Housing screw connection - SACC-BP-F-FIX/NUT-VT-SMD - 1419567



Fixing sleeve for M12 housing screw connection with tolerance-compensating function, for SMD-solderable M12 socket contact inserts.

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