

## Flush-type connector - SACC-CI-M12FST-4CON-L180 THR S - 1406412

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Flush-type connector, Power, 4-position, Socket, straight, M12, T power, PCB mounting, THR solder connection

### Your advantages

- ✓ For compact devices: transmit high power in a confined space
- ✓ 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

### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	60 pc
GTIN	 4 046356 804363
GTIN	4046356804363
Weight per Piece (excluding packing)	5.330 g
Custom tariff number	85366990
Country of origin	Germany

### Technical data

#### Ambient conditions

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

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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	63 V
Rated surge voltage	1.5 kV
Number of positions	4
Insulation resistance	≥ 100 MΩ
Coding	T power
Standards/regulations	M12 connector
Signal type/category	Power
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	PA

### Cable

Standards/specifications	M12 connector
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### Standards and Regulations

Standard designation	M12 connector
Flammability rating according to UL 94	V0

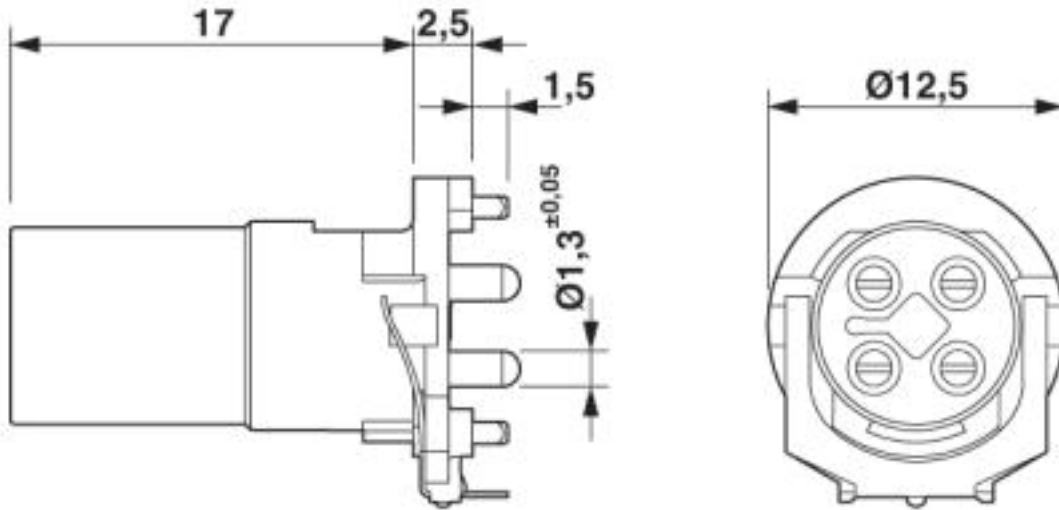
### Environmental Product Compliance

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

## Drawings

# Flush-type connector - SACC-CI-M12FST-4CON-L180 THR S - 1406412

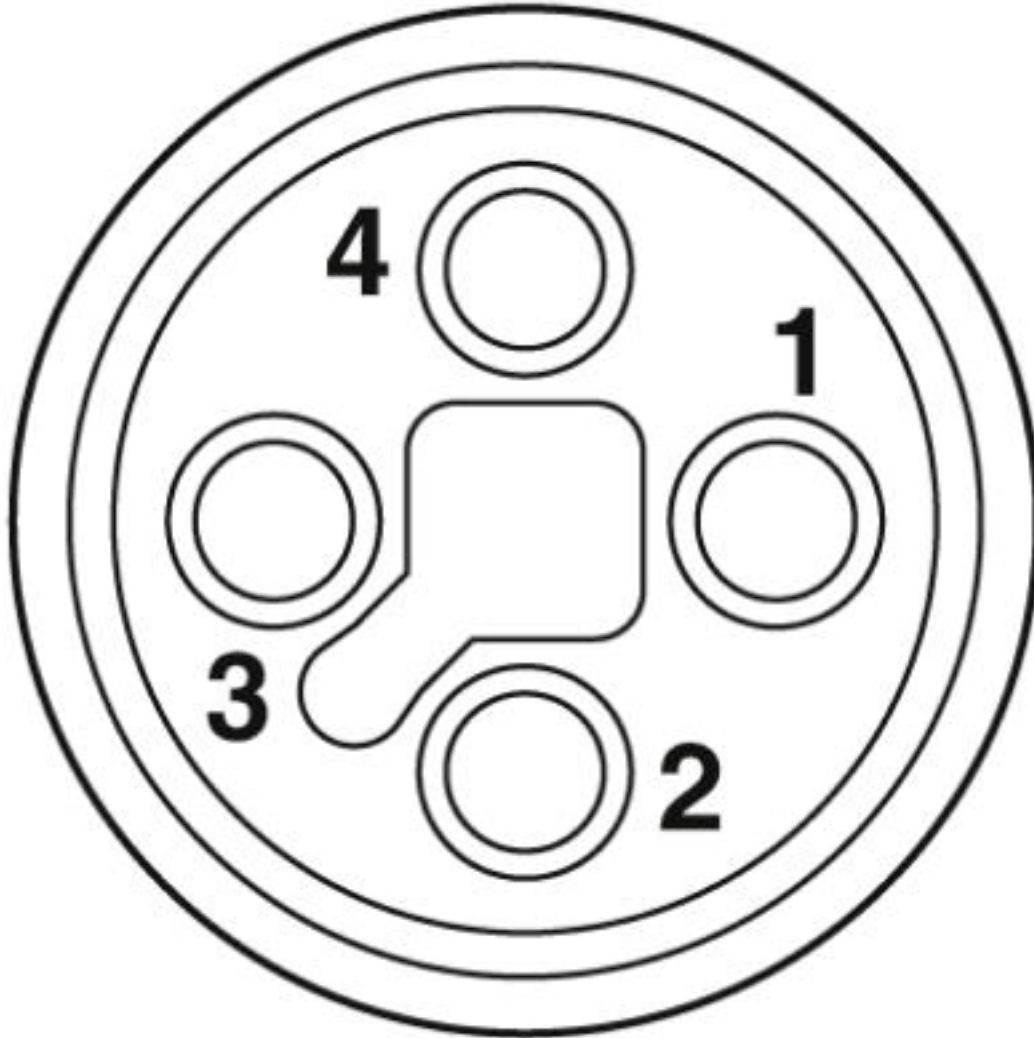
Dimensional drawing



M12 female connector contact carrier

# Flush-type connector - SACC-CI-M12FST-4CON-L180 THR S - 1406412

Schematic diagram



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

## Classifications

eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27143400

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## Classifications

### eCl@ss

eCl@ss 6.0	27279200
eCl@ss 7.0	27440103
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
UNSPSC 18.0	39121413
UNSPSC 19.0	39121413
UNSPSC 20.0	39121413
UNSPSC 21.0	39121413

## Approvals

### Approvals

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Approvals

EAC / UL Recognized / cUL Recognized / cULus Recognized

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Ex Approvals

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### Approval details

EAC		B.01742
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# Flush-type connector - SACC-CI-M12FST-4CON-L180 THR S - 1406412

## Approvals

UL 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>	E468743-20190917
Nominal voltage UN		63 V	
Nominal current IN		12 A	
mm <sup>2</sup> /AWG/kcmil		16	

cUL 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>	E468743-20190917
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cULus Recognized	
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## Accessories

### Accessories

#### Panel mounting base

#### Housing screw connection - SACC-M12-SCO NUT - 1552243



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

#### Housing screw connection - SACC-DSIV-M12-NUT - 1416144



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

## Flush-type connector - SACC-CI-M12FST-4CON-L180 THR S - 1406412

### Accessories

Housing screw connection - SACC-M12-SCO NUT L 90 - 1432460



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

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Housing screw connection - SACC-BP-F-M12/M15-6-THR - 1414004



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

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Housing screw connection - SACC-BP-F-M12/M15-7-THR - 1414003



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

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Housing screw connection - SACC-BP-F-M12/M15-6-THR SCO - 1414020



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

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Housing screw connection - SACC-BP-F-M12/M15-7-THR SCO - 1414005



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

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## Flush-type connector - SACC-CI-M12FST-4CON-L180 THR S - 1406412

### Accessories

Housing screw connection - SACC-BP-F-M12/THR-1,0/1,8-9TIP - 1419630



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 1.0 mm ... 1.8 mm thick front plates.

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Housing screw connection - SACC-BP-F-M12/THR-1,7/2,5-9TIP - 1419631



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 1.7 mm ... 2.5 mm thick front plates.

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Housing screw connection - SACC-BP-F-M12/THR-2,4/3,2-9TIP - 1419633



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 2.4 mm ... 3.2 mm thick front plates.

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Housing screw connection - SACC-BP-F-M12/THR-3,1/3,9-9TIP - 1419634



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 3.1 mm ... 3.9 mm thick front plates.

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Housing screw connection - SACC-M12 NUT PRESS - 1437889



Housing screw connection for two-piece M12 connectors for the reflow soldering process.

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## Flush-type connector - SACC-CI-M12FST-4CON-L180 THR S - 1406412

### Accessories

Housing screw connection - SACC-DSIV-M12-NUT-9 THR - 1417989



M12 female connector, front mounting THR with M14 screw fastening

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