Flush-type connector - SACC-CI-M12MST-4CON-L180 THR SH

PHŒNIX CONTACT

1406397

https://www.phoenixcontact.com/us/products/1406397

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Flush-type connector, Power, 4-position, Plug, 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
- Additional gasket for the device when not plugged in

Commercial Data

Item number	1406397
Packing unit	1 pc
Minimum order quantity	60 pc
Sales Key	A11
Product Key	ABQEAC
Catalog Page	Page 288 (C-2-2013)
GTIN	4046356804356
Weight per Piece (including packing)	5.703 g
Weight per Piece (excluding packing)	5.69 g
Customs tariff number	85366930
Country of origin	DE

Technical Data

Notes

Notes on operation	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.

Product properties

Product type	Contact insert
Number of positions	4
Shielded	yes
Coding	T power
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	63 V
Nominal current I_N	12 A

Interfaces

Signal type/category	Power

Material specifications

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

Connector

Insertion/withdrawal cycles	> 100

Connection 1

Head design	Plug
Head cable outlet	straight
Head thread type	M12

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Coding	T power

Cable / line

Signal type/category	Power

Environmental and real-life conditions

Ambient conditions

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

Mounting

Mounting type	PCB mounting

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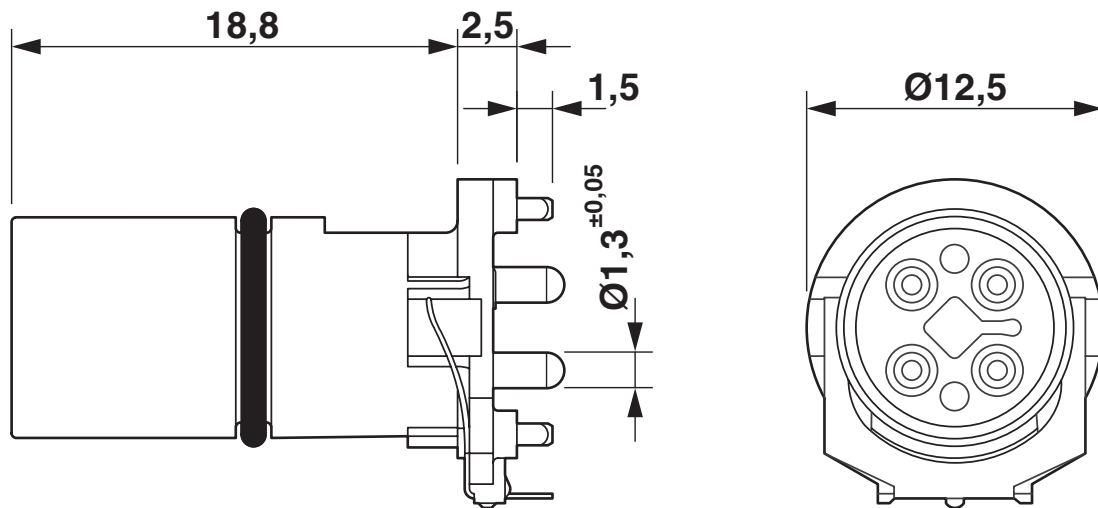
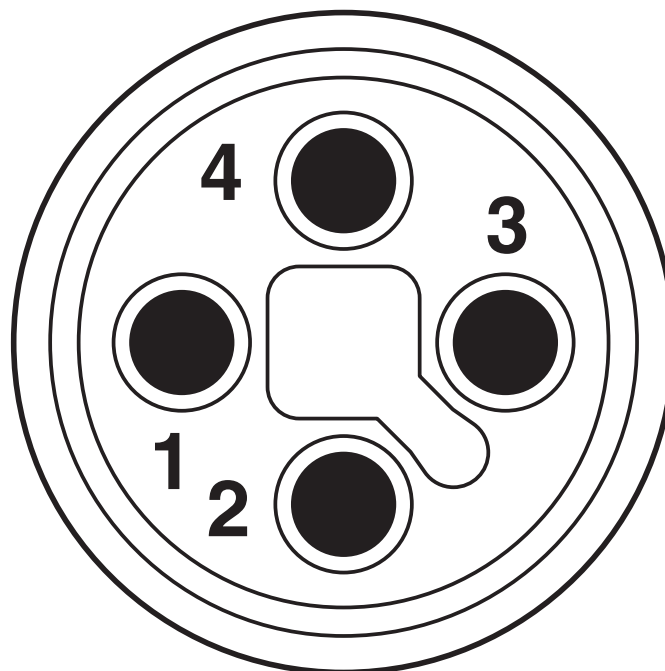https://www.phoenixcontact.com/us/products/1406397

Drawings

Dimensional drawing

M12 male connector contact carrier

Schematic diagram

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

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Approvals

cUL Recognized
Approval ID: E468743-20190917

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	63 V	12 A	- 16	-

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EAC
Approval ID: B.01687

cULus Recognized

Classifications

ECLASS

ECLASS-9.0	27440102
ECLASS-10.0.1	27440102
ECLASS-11.0	27440102

ETIM

ETIM 8.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

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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Accessories

Sample set

Sample set - SACC-CI-M12MST-4CON-L180THR SH SP - 1420413

https://www.phoenixcontact.com/us/products/1420413

Sample set, Universal, 4-position, Plug, straight, M12, T power, PCB mounting, THR solder connection

Housing screw connection

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

https://www.phoenixcontact.com/us/products/1551493

Housing screw connection, Plug, M12-SPEEDCON, Front mounting, M12 x 1

Housing screw connection

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

https://www.phoenixcontact.com/us/products/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

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

https://www.phoenixcontact.com/us/products/1436709

Housing screw connection, M12 x 1

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Housing screw connection

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

https://www.phoenixcontact.com/us/products/1413997

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

Housing screw connection

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

https://www.phoenixcontact.com/us/products/1413996

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

Housing screw connection

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

https://www.phoenixcontact.com/us/products/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

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

https://www.phoenixcontact.com/us/products/1413998

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

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Housing screw connection

Housing screw connection - SACC-M12 PLUG PRESS - 1437892

https://www.phoenixcontact.com/us/products/1437892

Housing screw connection, M12 x 1

Housing screw connection

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

https://www.phoenixcontact.com/us/products/1417984

M12 pin, front mounting THR with M14 screw fastening

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Housing screw connection

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

https://www.phoenixcontact.com/us/products/1027661

Housing screw connection, Plug, M12-Push-Pull, Rear mounting, M15 x 1, THR- und Wellenlötkontakte

Housing screw connection

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

https://www.phoenixcontact.com/us/products/1027679

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