SACC-CI-M12MSM-5PE-L180 THR T - Contact carrier

1420822

https://www.phoenixcontact.com/us/products/1420822

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Contact carrier, Power, 6-position, Pin, straight, M12, M-coding, THR solder connection, this item is expected to be lead-free from Q1 2027 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

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 fastening
- Additional gasket for the device when not plugged in

Commercial data

Item number	1420822
Packing unit	60 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQAGQ
GTIN	4055626280677
Weight per piece (including packing)	4.747 g
Weight per piece (excluding packing)	3.297 g
Customs tariff number	85366990
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
Application	Power
Number of positions	6
Connection profile	5+PE
No. of power contacts	5
Seal present	yes
Coding	M
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Nominal voltage U_N	630 V
Nominal current I_N	8 A

Connection data

Connection method	THR solder connection

Interfaces

Signal type/category	Power

Material specifications

Material Contact carrier	PA 4T
Material Contact	CuZn
Material Contact surface	Au
Material Seal	FKM
Flammability rating according to UL 94	V0

Connector

Connection 1

Head design	Pin

Head cable outlet	straight
Head thread type	M12
Coding	M

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67 (correctly plugged in and locked)
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 105 °C
	-40 °C ... 105 °C (without mechanical actuation)
UL Type Rating	Type 4 (indoor use only)

Standards and regulations

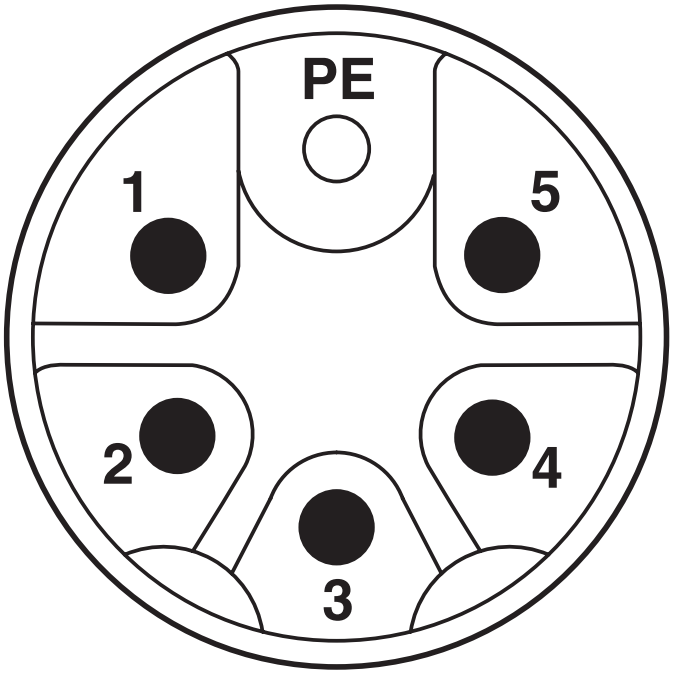
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-111

Packaging specifications

Type of packaging	Tray
Delivery state	with assembly pad

Drawings

Schematic diagram



Pin assignment of M12 connector, 6-pos., M-coded, pin side view

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1420822

cULus Recognized
Approval ID: E468743-20180113

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	10 A	-	-

Classifications

ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

ETIM

ETIM 10.0	EC003557

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	95ae3c62-8ed0-4169-be55-e084f212b298

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