SACC-CI-M12FSK-4PE-L180 THR T - Contact carrier

1420821

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Contact carrier, Power, 5-position, Socket, straight, M12, K-coding, 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 fastening
- Additional gasket for the device when not plugged in

Commercial data

Item number	1420821
Packing unit	60 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQAGW
GTIN	4055626280660
Weight per piece (including packing)	5.277 g
Weight per piece (excluding packing)	3.828 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	5
Connection profile	4+PE
No. of power contacts	4
Seal present	yes
Coding	K
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated voltage in acc. with IEC 61076-2-101	690 V
Rated surge voltage	6 kV
Nominal voltage U_N	690 V
Nominal current I_N	16 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	Socket
Head cable outlet	straight
Head thread type	M12
Coding	K

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

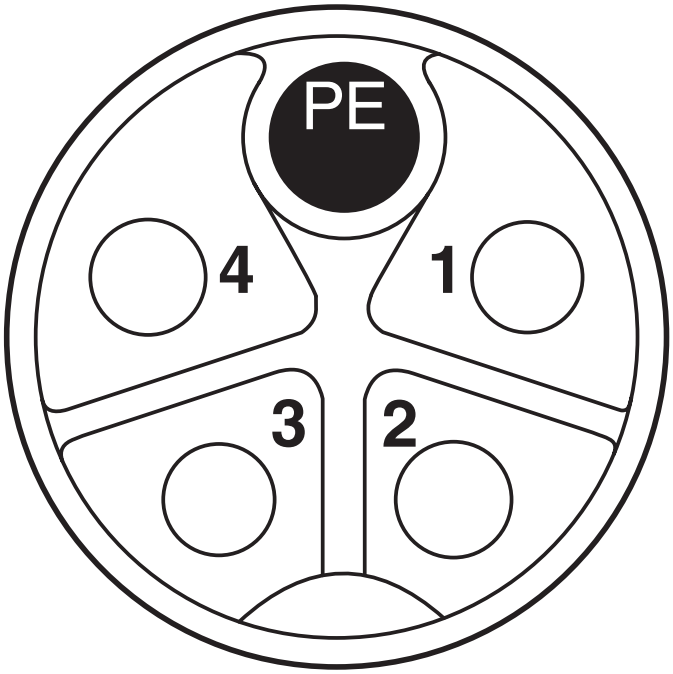
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-111

Packaging specifications

Type of packaging	Tray
Delivery state	with assembly pad

Drawings

Schematic diagram



Pin assignment of M12 socket, 5-pos., K-coded, socket side view

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1420821

cULus Recognized
Approval ID: E468743-20180113

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
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	600 V	16 A	14	-

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, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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