

SACC-CI-M12FST-4CON-L180 THR SH SP - Sample set



1421316

<https://www.phoenixcontact.com/us/products/1421316>

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The figure shows the unshielded version

Sample set, Universal, 4-position, Socket, straight, M12, T-coding, THR solder connection, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

Commercial data

Item number	1421316
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF19
Product key	ABQXAA
GTIN	4055626257815
Weight per piece (including packing)	5 g
Weight per piece (excluding packing)	2.833 g
Customs tariff number	85366930
Country of origin	DE

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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.
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Product properties

Product type	Contact insert
Application	Power
Number of positions	4
No. of power contacts	4
Shielded	yes
Coding	T
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	60 V
Nominal current I_N	12 A

Connection data

Connection method	THR solder connection
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Interfaces

Signal type/category	Universal
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Material specifications

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

Connector

Connection 1

Head design	Socket
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Head cable outlet	straight
Head thread type	M12
Coding	T

Cable/line

Signal type/category	Universal
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Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67 (When plugged in)
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)

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Drawings

Schematic diagram



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

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Approvals

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 cUL Recognized Approval ID: E468743-20190917				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	63 V	12 A	16	-

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Classifications

ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

ETIM

ETIM 10.0	EC003557
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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