

SACC-CIP-M12MSB-5P SMD SH-SP - Contact carrier



1418648

<https://www.phoenixcontact.com/us/products/1418648>

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Contact carrier, Power, 4-position, Pin, straight, M12, coding: T, PCB mounting, SMD reflow, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239211

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 | 1418648 |
| Packing unit | 5 pc |
| Minimum order quantity | 5 pc |
| Product key | ABQXAA |
| GTIN | 4055626163000 |
| Weight per piece (including packing) | 9.9 g |
| Weight per piece (excluding packing) | 9.9 g |
| 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 |
| Sensor type | Power |
| Number of positions | 4 |
| Seal present | yes |
| 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 | 63 V |
| Nominal current I_N | 12 A |

Connection data

| | |
|-------------------|------------|
| Connection method | SMD reflow |
|-------------------|------------|

Interfaces

| | |
|----------------------|-------|
| Signal type/category | Power |
|----------------------|-------|

Material specifications

| | |
|--|------|
| Flammability rating according to UL 94 | V0 |
| Seal material | FKM |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PA |

Connector

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Connection 1

| | |
|-------------------|----------|
| Head design | Pin |
| Head cable outlet | straight |
| Head thread type | M12 |
| Coding | T |

Cable/line

| | |
|----------------------|-------|
| Signal type/category | Power |
|----------------------|-------|

Mechanical properties

Mechanical data

| | |
|-----------------------------|-------|
| Insertion/withdrawal cycles | > 100 |
|-----------------------------|-------|

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

M12

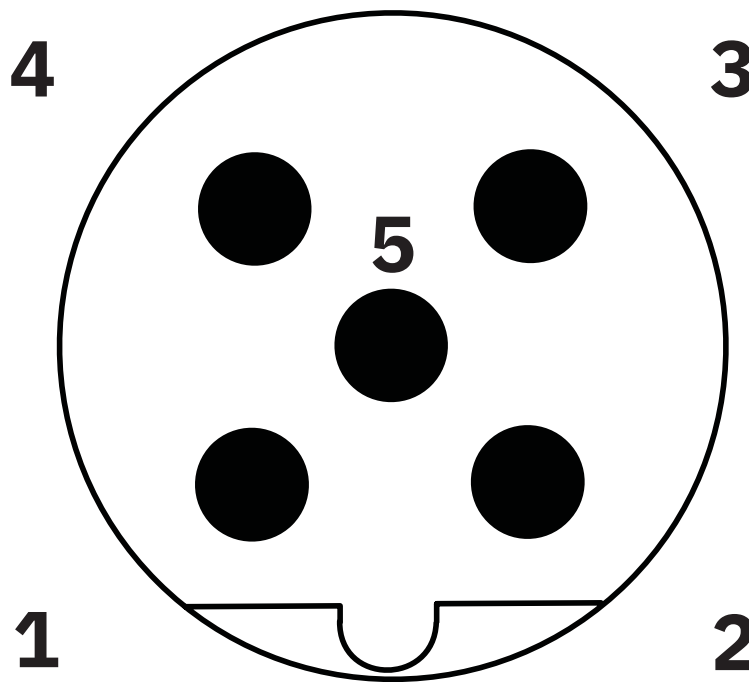
| | |
|--------------------------|-----------------|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-111 |
| Note | In line with |

Mounting

| | |
|---------------|--------------|
| Mounting type | PCB mounting |
|---------------|--------------|

Drawings

Schematic diagram



Pin assignment M12 male connector, 5-pos., B-coded, male side

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1418648>

| | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| <div> cULus Recognized Approval ID: E221474-20160506</div> | | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 60 V | 4 A | - | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27440223 |
| ECLASS-12.0 | 27440223 |
| ECLASS-13.0 | 27440223 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC003557 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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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 | 894418b8-1b36-442e-94df-aa7f1d99ce89 |

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Accessories

SACC-BP-M-M12/M15-6-SMD - Housing screw connection

1414000

<https://www.phoenixcontact.com/us/products/1414000>



Housing screw connection, Pin, Rear mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239053

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

1414002

<https://www.phoenixcontact.com/us/products/1414002>



Housing screw connection, Pin, M12-SPEEDCON, Rear mounting, M15 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239054

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SACC-FP-M-M12/M14 SMD - Housing screw connection

1412078

<https://www.phoenixcontact.com/us/products/1412078>



Housing screw connection, Pin, M12, Front mounting, M14 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1238970

SACC-FP-M-M12/PRESS SMD - Housing screw connection

1412080

<https://www.phoenixcontact.com/us/products/1412080>



Housing screw connection, Pin, M12, Front mounting

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SACC-BP-M-M12-SMD PP - Housing screw connection

1107993

<https://www.phoenixcontact.com/us/products/1107993>



Housing screw connection, Pin, M12-Push-pull external locking, Rear mounting, SMD, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1308006

SACC-FP-M-M12-SMD PP - Housing screw connection

1107999

<https://www.phoenixcontact.com/us/products/1107999>



Housing screw connection, Pin, M12-Push-pull external locking, Front mounting, SMD

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