

SACC-CI-M12MSK-4PE-L180 THR T - Contact carrier



1420819

<https://www.phoenixcontact.com/us/products/1420819>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Contact carrier, Power, 5-position, Pin, straight, M12, K-coding, THR solder connection, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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 | 1420819 |
| Packing unit | 60 pc |
| Minimum order quantity | 60 pc |
| Sales key | AB23 |
| Product key | ABQAGQ |
| GTIN | 4055626280653 |
| Weight per piece (including packing) | 5.28 g |
| Weight per piece (excluding packing) | 3.768 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

1420819

<https://www.phoenixcontact.com/us/products/1420819>

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 |
| Shielded | no |
| Coding | K |
| Thread type | M12 |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution | 3 |

Electrical properties

| | |
|-----------------------|-------|
| 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

SACC-CI-M12MSK-4PE-L180 THR T - Contact carrier



1420819

<https://www.phoenixcontact.com/us/products/1420819>

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

Cable/line

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

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

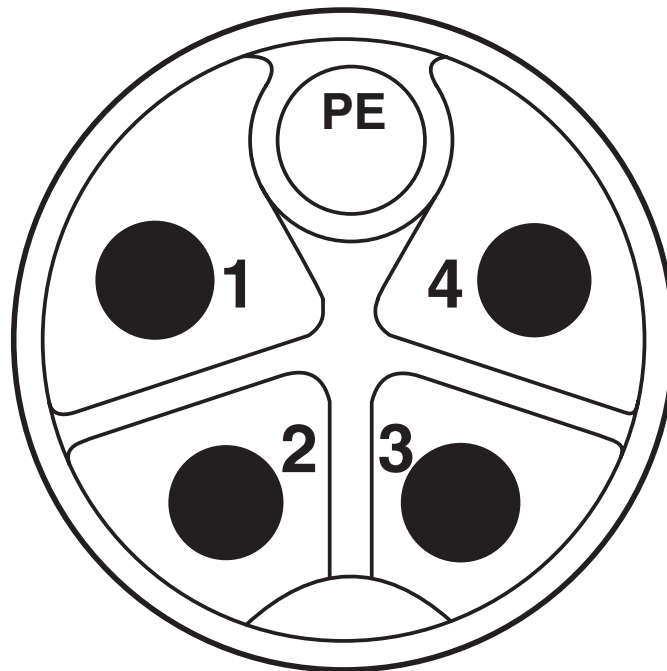
| | |
|-------------------|-------------------|
| Type of packaging | Tray |
| Delivery state | with assembly pad |

1420819

<https://www.phoenixcontact.com/us/products/1420819>

Drawings

Schematic diagram



Connector pin assignment of M12 plug, 5-pos., K-coded, pin side view

SACC-CI-M12MSK-4PE-L180 THR T - Contact carrier




1420819

<https://www.phoenixcontact.com/us/products/1420819>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1420819>

|  cULus Recognized Approval ID: E468743-20180113 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 600 V | 16 A | - | - |

1420819

<https://www.phoenixcontact.com/us/products/1420819>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440223 |
| ECLASS-15.0 | 27440223 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC003557 |
|-----------|----------|

UNSPSC

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

1420819

<https://www.phoenixcontact.com/us/products/1420819>

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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com