

SACC-CIP-M12FSD-4P SMD SH R32 - Contact carrier



1412005

<https://www.phoenixcontact.com/us/products/1412005>

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Contact carrier, Ethernet/PROFINET CAT5 (100 Mbps), 4-position, Socket, straight, M12, D-coding, SMD reflow, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

Your advantages

- 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 | 1412005 |
| Packing unit | 120 pc |
| Minimum order quantity | 120 pc |
| Sales key | AB23 |
| Product key | ABQBGH |
| GTIN | 4046356992787 |
| Weight per piece (including packing) | 5.3 g |
| Weight per piece (excluding packing) | 2.3 g |
| Customs tariff number | 85366990 |
| 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. |
|--------------------|--|

Product properties

| | |
|---------------------|----------------|
| Product type | Contact insert |
| Application | Data Signal |
| Number of positions | 4 |
| Seal present | yes |
| Shielded | yes |
| Coding | D |
| Thread type | M12 |

Insulation characteristics

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

Electrical properties

| | |
|---|-----------------------|
| Rated surge voltage | 2.5 kV |
| Contact resistance | ≤ 3 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage U _N | 250 V 250 V DC |
| Nominal current I _N | 4 A |
| Transmission speed | 100 Mbps |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |

Connection data

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

Interfaces

| | |
|----------------------|----------------------------------|
| Signal type/category | Ethernet/PROFINET CAT5, 100 Mbps |
|----------------------|----------------------------------|

Material specifications

| | |
|--|------|
| Material Insulating body | PA |
| Material Contact | CuZn |
| Material Contact surface | Au |
| Material Seal | FKM |
| Flammability rating according to UL 94 | V0 |

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Connector

Connection 1

| | |
|-------------------|----------|
| Head design | Socket |
| Head cable outlet | straight |
| Head thread type | M12 |
| Coding | D |

Cable/line

| | |
|----------------------|----------------------------------|
| Signal type/category | Ethernet/PROFINET CAT5, 100 Mbps |
|----------------------|----------------------------------|

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 (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 61076-2-101 |

Packaging specifications

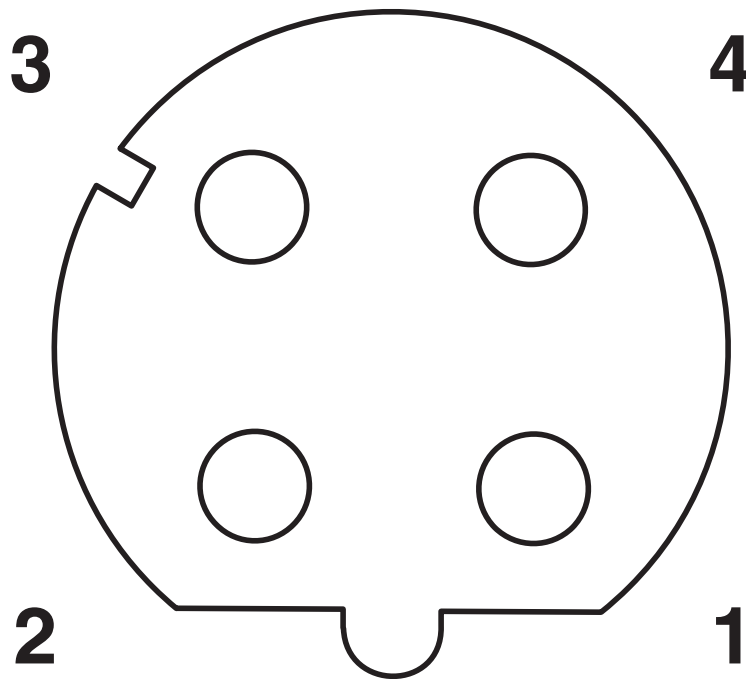
| | |
|-------------------|------|
| Type of packaging | Belt |
|-------------------|------|

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Drawings

Schematic diagram



Pin assignment M12 socket, 4-pos., D-coded, female side

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Approvals

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|  cULus Recognized Approval ID: E221474-20160506 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 250 V | 4 A | - | - |

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Classifications

ECLASS

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

ETIM

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

UNSPSC

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

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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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