

# SACC-CIP-M12FSD-4P SMD SH-SP - Contact carrier



1418630

<https://www.phoenixcontact.com/us/products/1418630>

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Contact carrier, 4-position, Socket, straight, M12, D-coding, SMD reflow



## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1418630       |
| Packing unit                         | 5 pc          |
| Minimum order quantity               | 5 pc          |
| Product key                          | ABQXAA        |
| GTIN                                 | 4055626162447 |
| Weight per piece (including packing) | 7.04 g        |
| Weight per piece (excluding packing) | 2.725 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 |
| Number of positions | 4              |
| Seal present        | yes            |
| Shielded            | yes            |
| Coding              | D              |

### 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    |
| Nominal current $I_N$ | 4 A      |

### Connection data

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

### Material specifications

|  |      |
|--|------|
| Material Insulating body               | PA   |
| 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            | D        |

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## 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 (not plugged in)                             | IP65 (not plugged in, by means of additional O-ring seal with device) |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 105 °C (Plug / socket)                                     |
|   | -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 |

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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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|  <b>cULus Recognized</b><br>Approval ID: E221474-20160506 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 250 V                 | 4 A                   | -                 | -                           |

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## Classifications

### 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, 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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