

# SACC-CI-M12MSD-4CON-L90 SH SCOX - Contact carrier



1239629  
<https://www.phoenixcontact.com/us/products/1239629>

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Contact carrier, Ethernet/PROFINET CAT5 (100 Mbps), 4-position, Pin, angled, M12-SPEEDCON, D-coding, Wave soldering, 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
- 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                          | 1239629       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 20 pc         |
| Product key                          | ABQAHA        |
| GTIN                                 | 4063151432294 |
| Weight per piece (including packing) | 4.58 g        |
| Weight per piece (excluding packing) | 3.29 g        |
| 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         | 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                      | $\leq 3 \text{ m}\Omega$   |
| Insulation resistance                   | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$                   | 250 V                      |
| Nominal current $I_N$                   | 4 A                        |
| Transmission speed                      | 100 Mbps                   |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002)      |

### Connection data

|                   |                |
|-------------------|----------------|
| Connection method | Wave soldering |
|-------------------|----------------|

### Interfaces

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

### Material specifications

|                                        |            |
|----------------------------------------|------------|
| Material Contact carrier               | PA 6.6     |
| Material Contact                       | CuZn       |
| Material Contact surface               | Au         |
| Material Seal                          | FKM / EPDM |
| Flammability rating according to UL 94 | V0         |

### Connector

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## Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Pin      |
| Head cable outlet | angled   |
| Head thread type  | M12      |
| Head locking type | SPEEDCON |
| 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                                              | IP67                                            |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket)                |
|                                                                   | -40 °C ... 85 °C (without mechanical actuation) |

## Standards and regulations

|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | M12 circular connector       |
| Standards/specifications | according to IEC 61076-2-101 |

## Packaging specifications

|                   |         |
|-------------------|---------|
| Type of packaging | Blister |
|-------------------|---------|

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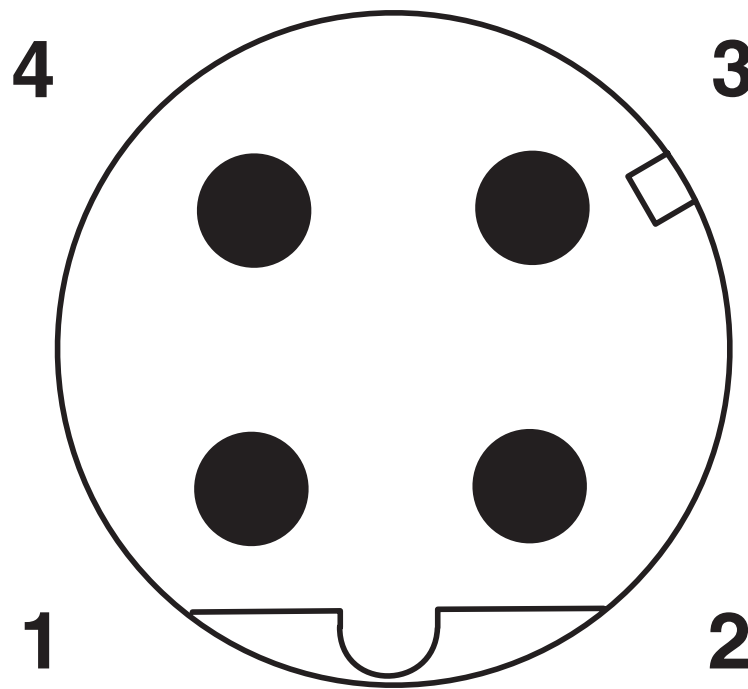


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## Drawings

Schematic diagram



Pin assignment M12 male connector, 4-pos., D-coded, male side

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## Approvals

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|  <b>cUL Recognized</b><br>Approval ID: E118976-20100522 |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                    |                       |                       |                   |                             |
|                                                                                                                                          | 250 V                 | 4 A                   | 22                | -                           |

|  <b>UL Recognized</b><br>Approval ID: E118976-20100522 |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                         | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                   |                       |                       |                   |                             |
|                                                                                                                                         | 250 V                 | 4 A                   | 22                | -                           |

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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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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