

# SACC-CI-M12MS-8CON-L90 SH SCO - Contact carrier



1437038

<https://www.phoenixcontact.com/us/products/1437038>

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Contact carrier, 8-position, Pin, angled, M12, A-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                          | 1437038       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB23          |
| Product key                          | ABQAHA        |
| GTIN                                 | 4046356438605 |
| Weight per piece (including packing) | 5.396 g       |
| Weight per piece (excluding packing) | 3.68 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             | Signal         |
| Number of positions     | 8              |
| No. of control contacts | 8              |
| Seal present            | yes            |
| Shielded                | yes            |
| Coding                  | A              |
| Thread type             | M12            |

### Insulation characteristics

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

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Rated surge voltage   | 0.8 kV                     |
| Contact resistance    | $\leq 3 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 30 V                       |
| Nominal current $I_N$ | 2 A                        |

### Connection data

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

### 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

#### Connection 1

|                   |        |
|-------------------|--------|
| Head design       | Pin    |
| Head cable outlet | angled |

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|                  |     |
|------------------|-----|
| Head thread type | M12 |
| Coding           | A   |

## 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                                |
|   | -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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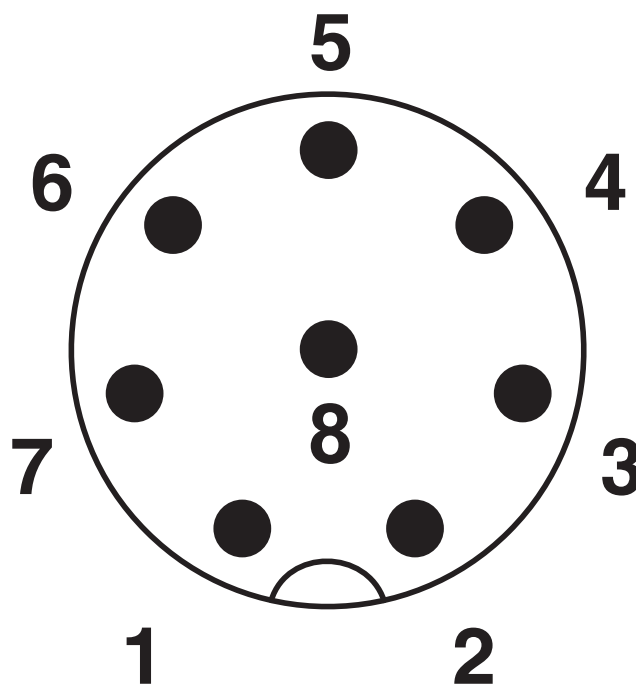


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## Drawings

Schematic diagram



Pin assignment M12 plug, 8-pos., A-coded, view plug side

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1437038>

|  <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   |                       |                       |                   |                             |
|   | 30 V                  | 2 A                   | 24                | -                           |

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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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