

# SACC-CI-M12FSX-8CON-L90 - Contact carrier



1424180

<https://www.phoenixcontact.com/us/products/1424180>

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Contact carrier, Ethernet CAT6<sub>A</sub> (10 Gbps), 8-position, Socket, angled, M12, X-coding, Wave soldering, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## 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

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1424180       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 20 pc         |
| Sales key                            | AB23          |
| Product key                          | ABQAHS        |
| GTIN                                 | 4046356692663 |
| Weight per piece (including packing) | 6.865 g       |
| Weight per piece (excluding packing) | 6.87 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           |
| Sensor type         | Ethernet       |
| Number of positions | 8              |
| Seal present        | no             |
| Shielded            | yes            |
| Coding              | X              |
| Thread type         | M12            |

### Insulation characteristics

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

### Electrical properties

|                                         |                   |
|-----------------------------------------|-------------------|
| Rated surge voltage                     | 0.8 kV            |
| Contact resistance                      | < 3 mΩ            |
| Insulation resistance                   | > 100 MΩ          |
| Nominal voltage $U_N$                   | 50 V AC (Data)    |
|                                         | 60 V DC           |
| Nominal current $I_N$                   | 0.5 A (Data)      |
| Transmission speed                      | 10 Gbps           |
| Transmission characteristics (category) | CAT6 <sub>A</sub> |

### Connection data

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

### Interfaces

|                      |                                      |
|----------------------|--------------------------------------|
| Signal type/category | Ethernet CAT6 <sub>A</sub> , 10 Gbps |
|----------------------|--------------------------------------|

### Material specifications

|                                        |              |
|----------------------------------------|--------------|
| Material Contact carrier               | PA 6T/66     |
| Material Contact                       | Copper alloy |
| Material Contact surface               | Au           |
| Flammability rating according to UL 94 | V0           |

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## Connector

### Connection 1

|                   |        |
|-------------------|--------|
| Head design       | Socket |
| Head cable outlet | angled |
| Head thread type  | M12    |
| Coding            | X      |

## Cable/line

|                      |                                      |
|----------------------|--------------------------------------|
| Signal type/category | Ethernet CAT6 <sub>A</sub> , 10 Gbps |
|----------------------|--------------------------------------|

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|-------|

## Environmental and real-life conditions

### Ambient conditions

|                                                                   |                                                  |
|-------------------------------------------------------------------|--------------------------------------------------|
| Degree of protection                                              | IP67 (When plugged in)                           |
| Ambient temperature (operation) (male connector/female connector) | -40 °C ... 95 °C                                 |
| Ambient temperature (operation)                                   | -40 °C ... 105 °C (without mechanical actuation) |
|                                                                   | -25 °C ... 105 °C (Cable, flexible installation) |
|                                                                   | -40 °C ... 105 °C (cable, fixed installation)    |
| UL Type Rating                                                    | Type 4 (indoor use only)                         |

## Standards and regulations

|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | M12 circular connector       |
| Standards/specifications | according to IEC 61076-2-109 |
| Standard designation     | Shock, vibration             |
| Standards/specifications | according to EN 50155        |
| Standard designation     | Shock, vibration             |
| Standards/specifications | according to EN 61373:2011   |

## Mounting

### Processing notes

|         |                |
|---------|----------------|
| Process | Wave soldering |
|---------|----------------|

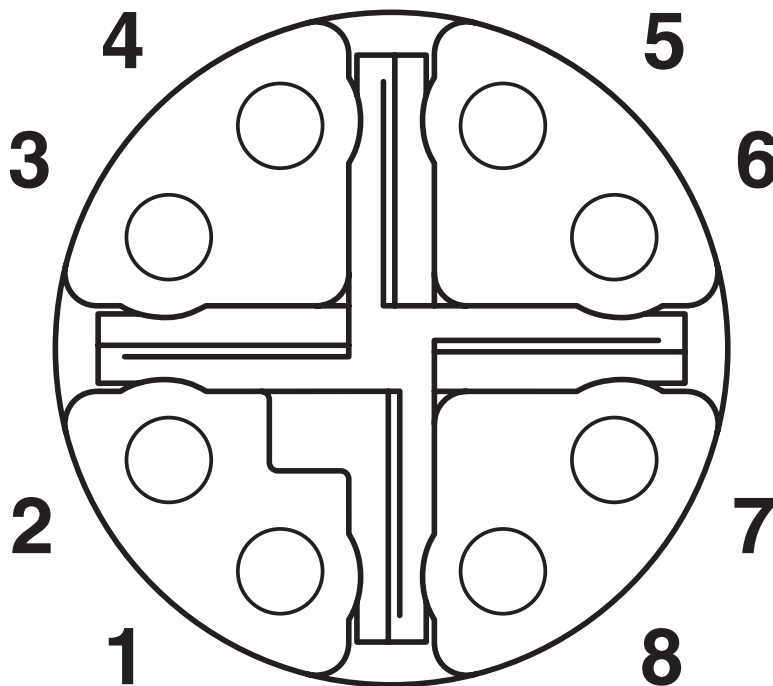
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## Drawings

Schematic diagram



Pin assignment M12 connector, 8-pos., view socket side

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424180>

|  <b>cUL Recognized</b><br>Approval ID: E335024-20120308 |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                    |                       |                       |                   |                             |
|                                                                                                                                          | 60 V                  | 0.5 A                 | -                 | -                           |

|  <b>UL Recognized</b><br>Approval ID: E335024-20120308 |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                         | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                   |                       |                       |                   |                             |
|                                                                                                                                         | 60 V                  | 0.5 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  |
| Exemption                               | 6(c) |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | fa4a0fc9-4b6e-4255-89bb-4c0db9e5f819 |

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