



THE DATASHEET OF
1424180



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



1424180

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Contact carrier, Ethernet CAT6_A (10 Gbps), 8-position, Socket, angled, M12, coding: X, PCB mounting, Wave soldering, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237389

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 |
| Catalog page | Page 91 (C-2-2013) |
| GTIN | 4046356692663 |
| Weight per piece (including packing) | 6.9 g |
| Weight per piece (excluding packing) | 6.205 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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



1424180

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

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 |

Data management status

| | |
|------------------|----|
| Article revision | 03 |
|------------------|----|

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 characteristics (category) | CAT6 _A |

Connection data

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

Interfaces

| | |
|----------------------|--------------------------------------|
| Signal type/category | Ethernet CAT6 _A , 10 Gbps |
|----------------------|--------------------------------------|

Material specifications

| | |
|--|--------------|
| Flammability rating according to UL 94 | V0 |
| Contact material | Copper alloy |
| Contact surface material | Gold |

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



1424180

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

| | |
|--------------------------|----------|
| Contact carrier material | PA 6T/66 |
|--------------------------|----------|

Connector

Connection 1

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

Cable/line

| | |
|----------------------|--------------------------------------|
| Signal type/category | Ethernet CAT6 _A , 10 Gbps |
|----------------------|--------------------------------------|

Mechanical properties

Mechanical data

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

Environmental and real-life conditions

Ambient conditions

| | |
|--|--|
| Degree of protection (when plugged in) | IP67 (When plugged in) |
| Degree of protection | IP67 (When plugged in) IP67, when plugged in |
| Ambient temperature (operation) | -40 °C ... 105 °C (Plug / socket) -40 °C ... 105 °C (without mechanical actuation) -25 °C ... 105 °C (Cable, flexible installation) -40 °C ... 105 °C (cable, fixed installation) |

Standards and regulations

| | |
|--------------------------|------------------|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-109 |
| Standard designation | Shock, vibration |
| Standards/specifications | EN 50155 |

Mounting

| | |
|---------------|--------------|
| Mounting type | PCB mounting |
|---------------|--------------|

Processing notes

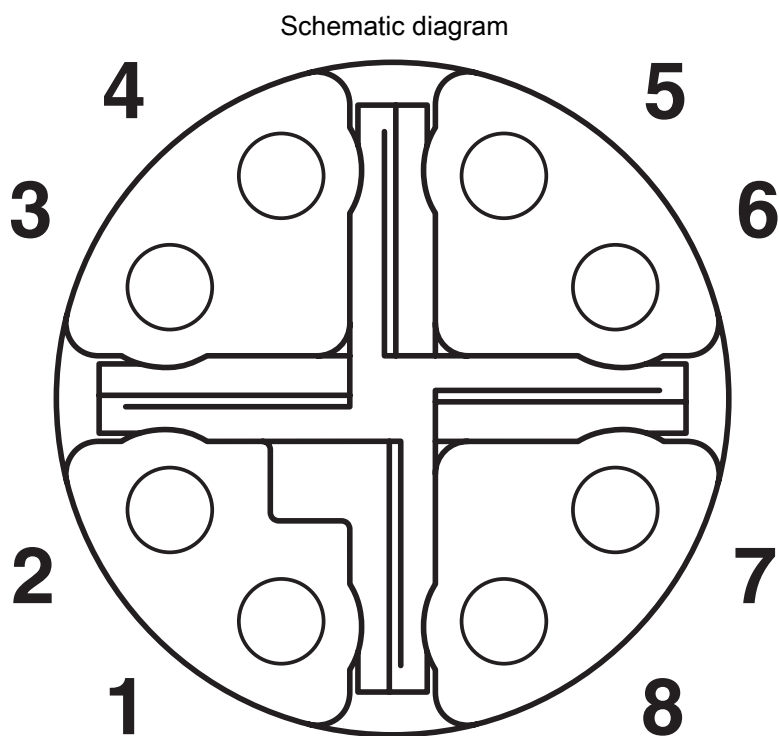
| | |
|---------|----------------|
| Process | Wave soldering |
|---------|----------------|

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

1424180

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

Drawings



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

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





1424180

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

Approvals

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

|  cUL Recognized Approval ID: E335024-20120308 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 60 V | 0.5 A | - | - |

|  UL Recognized Approval ID: E335024-20120308 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 60 V | 0.5 A | - | - |

| cULus Recognized | | | | |
|-------------------------|--|--|--|--|
|-------------------------|--|--|--|--|

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



1424180

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

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27460201 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002637 |
|----------|----------|

UNSPSC

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

1424180

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

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 |



Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View 1424180 on WIN SOURCE](#)
-  [Phoenix Contact Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management