

# SACC-E-M12FST-4P-M16XL/0,5 - Device connector front mounting



1411606

<https://www.phoenixcontact.com/us/products/1411606>

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.



Device connector front mounting, Power, 4-position, Socket, straight, M12-Standard, T-coding, on free cable end, Individual wires, cable length: 0.5 m, 1.31 mm<sup>2</sup>, UL/cUL stranded hook-up wire, potted, 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

- For compact devices: transmit high power in a confined space
- Easy-to-install, optimized XL housing contour with wrench size 19
- Mechanical tightening limitation for long-term-stable gasket
- Preassembled with litz wires for immediate use
- Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- For high transmission safety: shield connection to the housing with optional EMC nut

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1411606       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB24          |
| Product key                          | ABQCFG        |
| GTIN                                 | 4046356936200 |
| Weight per piece (including packing) | 56.8 g        |
| Weight per piece (excluding packing) | 43.434 g      |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

# SACC-E-M12FST-4P-M16XL/0,5 - Device connector front mounting



1411606

<https://www.phoenixcontact.com/us/products/1411606>

## 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. |
| General            | Contact connection method: Crimp connection  |

### Mounting

|                   |   |
|-------------------|---|
| Mounting type     | Front mounting (M16 x 1.5, XL variant, tightening limitation) |
| Tightening torque | 1.5 Nm ... 2 Nm (Installation-side)                           |

### Product properties

|                       |                                   |
|-----------------------|-----------------------------------|
| Product type          | Circular connectors (device side) |
| Application           | Power                             |
| Number of positions   | 4                                 |
| No. of cable outlets  | 1                                 |
| No. of power contacts | 4                                 |
| Shielded              | no                                |
| Coding                | T                                 |
| Thread type           | M12                               |

### Insulation characteristics

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

### Material specifications

|  |                              |
|--|------------------------------|
| Material Molding compound              | PUR (potted)                 |
| Flammability rating according to UL 94 | V0                           |
| Seal material                          | FKM                          |
| Contact material                       | CuZn                         |
| Contact surface material               | Ni/Au                        |
| Contact carrier material               | PA                           |
| Material for screw connection          | Zinc die-cast, nickel-plated |
| Conductor material                     | Bare Cu litz wires           |

### Electrical properties

|                       |              |
|-----------------------|--------------|
| Rated surge voltage   | 1.5 kV       |
| Rated surge voltage   | 1.5 kV AC/DC |
| Contact resistance    | ≤ 3 mΩ       |
| Insulation resistance | ≥ 100 MΩ     |

# SACC-E-M12FST-4P-M16XL/0,5 - Device connector front mounting



1411606

<https://www.phoenixcontact.com/us/products/1411606>

|                       |         |
|-----------------------|---------|
| Nominal voltage $U_N$ | 63 V DC |
| Nominal current $I_N$ | 12 A    |
| Test voltage          | 1.5 kV  |

## Connection data

### Conductor connection

|                         |                                     |
|-------------------------|-------------------------------------|
| Connection method       | Individual wires                    |
| Contact connection type | Socket                              |
| Conductor cross-section | 1.31 mm <sup>2</sup>                |
| Tightening torque       | 1.5 Nm ... 2 Nm (Installation-side) |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | > 100 |
|-----------------------------|-------|

## Connector

### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Socket   |
| Head cable outlet | straight |
| Head thread type  | M12      |
| Head locking type | Standard |
| Coding            | T        |

### Connection 2

|             |                |
|-------------|----------------|
| Head design | free cable end |
|-------------|----------------|

## Cable/line

|                                 |  |
|---------------------------------|--|
| Cable length                    | 0.5 m  |
| Cable type                      | UL/cUL stranded hook-up wire   |
| Signal type/category            | Power  |
| Wire diameter incl. insulation  | 2 mm   |
| Single wire, color              | black, brown, blue, white  |
| Cable cross section             | 1.31 mm <sup>2</sup>   |
| Conductor material              | Bare Cu litz wires   |
| AWG signal line                 | 16   |
| Material wire insulation        | mPPE   |
| Halogen-free                    | yes  |
| Flame resistance                | in acc. to UL 1581 VW1   |
| Ambient temperature (operation) | -40 °C ... 85 °C (without mechanical actuation)<br>-40 °C ... 85 °C (without mechanical actuation)<br>-25 °C ... 105 °C (Cable, flexible installation) |

# SACC-E-M12FST-4P-M16XL/0,5 - Device connector front mounting



1411606

<https://www.phoenixcontact.com/us/products/1411606>

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection  | IP65   |
|   | IP67   |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket)                 |
| Ambient temperature (operation) (Cable, fixed installation)       | -40 °C ... 85 °C (without mechanical actuation)  |
| Ambient temperature (operation) (Cable, flexible installation)    | -25 °C ... 105 °C (Cable, flexible installation) |
| Ambient temperature (operation) (Cable, fixed installation)       | -40 °C ... 105 °C (cable, fixed installation)    |
| UL Type Rating  | Type 4 (indoor use only)                         |

## Standards and regulations

|                          |                              |
|--------------------------|------------------------------|
| Flame resistance         | in acc. to UL 1581 VW1       |
| Standard designation     | M12 circular connector       |
| Standards/specifications | according to IEC 61076-2-111 |

# SACC-E-M12FST-4P-M16XL/0,5 - Device connector front mounting

1411606

<https://www.phoenixcontact.com/us/products/1411606>

## Drawings

Schematic diagram



Pin assignment of M12 socket, 4-pos., T-coded, socket side view

Circuit diagram



Contact assignment of the M12 socket

# SACC-E-M12FST-4P-M16XL/0,5 - Device connector front mounting





1411606

<https://www.phoenixcontact.com/us/products/1411606>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1411606>

|  <b>cUL Recognized</b><br>Approval ID: E468743-20190917 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 63 V                  | 12 A                  | 16                | -                           |

|  <b>UL Recognized</b><br>Approval ID: E468743-20190917 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 63 V                  | 12 A                  | 16                | -                           |

# SACC-E-M12FST-4P-M16XL/0,5 - Device connector front mounting



1411606

<https://www.phoenixcontact.com/us/products/1411606>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440103 |
| ECLASS-15.0 | 27440103 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003570 |
|-----------|----------|

### UNSPSC

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

# SACC-E-M12FST-4P-M16XL/0,5 - Device connector front mounting



1411606

<https://www.phoenixcontact.com/us/products/1411606>

## 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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - 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](mailto:info@phoenixcon.com)