

Flush-type connector - SACC-E-M12FSS-4P-M16XL/0,5 PE - 1411605

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Flush-type connector, Power, 4-position, Socket, M12, S power, Front mounting, M16 x 1.5, Individual wires, cable length: 0.5 m

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
- ✓ Pre-assembled 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

RoHS

Key Commercial Data

| | |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc |
| GTIN |  4 046356 936194 |
| GTIN | 4046356936194 |
| Weight per Piece (excluding packing) | 46.000 g |
| Weight per piece (including packing) | 46.800 g |
| Custom tariff number | 85366990 |
| Country of origin | Germany |
| Sales Key | C1 - Sensor-Acuator Cable |
| Note | Made to Order (non-returnable) |

Technical data

Dimensions

| | |
|-----------------|-------|
| Length of cable | 0.5 m |
|-----------------|-------|

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
|---------------------------------|----------------------------------|

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Technical data

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP67 |
|----------------------|------|

General

| | |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note | 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. |
| Rated current at 40°C | 12 A |
| Rated voltage | 630 V |
| Rated surge voltage | 6 kV |
| Number of positions | 4 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | S power |
| Standards/regulations | M12 connector IEC 61076-2-111 In line with |
| Signal type/category | Power |
| Status display | No |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Test voltage | 6 kV |
| Connection method | Individual wires |
| Insertion/withdrawal cycles | > 100 |
| Torque | 0.8 Nm ... 1.3 Nm (Installation-side) |
| Mounting type | Front mounting M16 x 1.5 Tightening limitation |

Material

| | |
|----------------------------------------|------------------------------|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PA |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | FKM |
| Additional material specifications | PU 2K (Grout material) |

Cable

| | |
|------------------------------------|--------------------------------------------|
| Cable type | UL/cUL stranded hook-up wire |
| Conductor cross section | 1.31 mm² |
| AWG signal line | 16 |
| Core diameter including insulation | 2.2 mm |
| Wire colors | Black 1, black 2, black 3, green/yellow |
| Conductor material | Bare Cu litz wires |
| Standards/specifications | M12 connector IEC 61076-2-111 In line with |
| Flame resistance | in acc. to UL 1581 VW1 |
| Halogen-free | yes |

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Cable

| | |
|---------------------------------|--------------------------------------------------|
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation) |
| | -20 °C ... 105 °C (cable, flexible installation) |

Standards and Regulations

| | |
|----------------------------------------|------------------------|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-111 |
| Flame resistance | in acc. to UL 1581 VW1 |
| Halogen-free | yes |
| Flammability rating according to UL 94 | V0 |

Environmental Product Compliance

| | |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

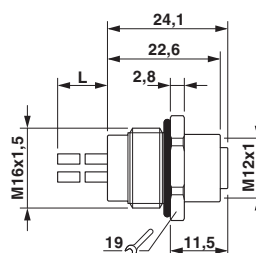
Drawings

Schematic diagram



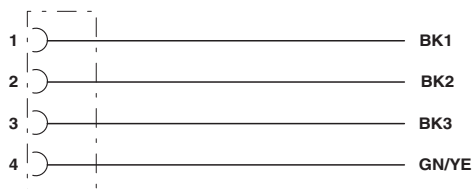
Pin assignment of M12 socket, 4-pos., S-coded, socket side view

Dimensional drawing



M12 flush-type socket

Circuit diagram



Contact assignment of the M12 socket

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 27143400 |
|------------|----------|

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27440103 |
| eCl@ss 8.0 | 27440103 |
| eCl@ss 9.0 | 27440102 |

ETIM

| | |
|----------|----------|
| ETIM 4.0 | EC002061 |
| ETIM 5.0 | EC002061 |
| ETIM 6.0 | EC002061 |

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 39121413 |
|-------------|----------|

Approvals


Approvals


Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

| | | | |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 468743 |
| Nominal voltage UN | 600 V | | |
| Nominal current IN | 12 A | | |
| mm²/AWG/kcmil | 16 | | |

| | | | |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 468743 |
| Nominal voltage UN | 600 V | | |
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Approvals

| | | |
|-----|-----------------------------------------------------------------------------------|---------|
| EAC |  | B.01742 |
|-----|-----------------------------------------------------------------------------------|---------|

| | |
|--------------|-----------------------------------------------------------------------------------|
| cULus Listed |  |
|--------------|-----------------------------------------------------------------------------------|

Accessories

Accessories

Flat nut

Flat nut - SACC-E-MU-M16 - 1504097



Flat nut with M16 thread