

Coupler connector - SF-7EP1N8A90DU - 1605575

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Coupler connector, straight short, Screw locking, M23, Number of positions: 4+3+PE, Type of contact: Male connector, Crimp connection, shielded: yes, Cable diameter: 7.5 mm...14 mm, Compatible with mating connectors with SPEEDCON or M23 standard knurled nuts

Why buy this product

- Consistent EMC protection for reliable connection solutions in the industrial environment
- Crimping connection: vibration- and temperature-resistant assembly
- Flexible use: reliably connect cable diameters of 7.5 mm ... 14 mm

RoHS

Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 STK |
| GTIN |  4 046356 182195 |
| GTIN | 4046356182195 |
| Weight per Piece (excluding packing) | 56.320 g |
| Custom tariff number | 85366990 |
| Country of origin | Germany |
| Note | Made to Order (non-returnable) |

Technical data

General

| | |
|---|---|
| Note | Order information: Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 mm separately |
| Type of locking | Screw locking |
| Coding | N |
| Contact connection method | Crimp connection |
| Type of contacts | Male connector |
| Number of positions | 8 |
| Contact diameter of power contacts | 2 mm |
| Nominal current per power contact at 25°C | 30 A |
| Contact diameter of signal contacts | 1 mm |

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Technical data

General

| | |
|--|------------------|
| Nominal current per signal contact at 25°C | 9 A |
| Conductor entry | 7.5 mm ... 14 mm |
| Pg housing screw connection | none |

Ambient conditions

| | |
|----------------------|-------------------|
| Ambient temperature | -40 °C ... 125 °C |
| Degree of protection | IP67 |

Material

| | |
|----------------------------|--|
| Housing material | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn) |
| Insulator material | PA 66 |
| Gasket and O-ring material | FPM |

Specifications according to DIN EN 61984:2001

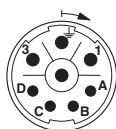
| | |
|--|--------|
| Installation height max. | 3000 m |
| Nominal / operating voltage of power contacts | 630 V |
| Rated surge voltage of power contacts | 6 kV |
| Overvoltage category of power contacts | III |
| Degree of pollution of power contacts | 3 |
| Nominal / operating voltage of signal contacts | 250 V |
| Rated surge voltage of signal contacts | 4 kV |
| Overvoltage category of signal contacts | III |
| Degree of pollution of signal contacts | 3 |

Environmental Product Compliance

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

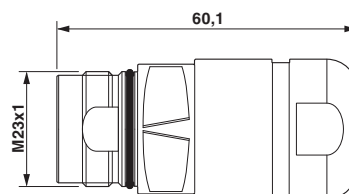
Drawings

Schematic diagram



Connector pin assignment

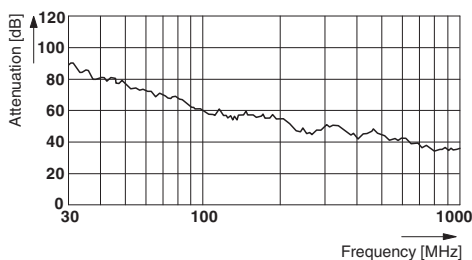
Dimensional drawing



Dimensional drawing

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Diagram



Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27260708 |
| eCl@ss 7.0 | 27440312 |
| eCl@ss 8.0 | 27440102 |
| eCl@ss 9.0 | 27440103 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC001121 |
| ETIM 5.0 | EC002635 |
| ETIM 6.0 | EC002061 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172015 |
| UNSPSC 12.01 | 43201404 |
| UNSPSC 13.2 | 39121413 |

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

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Approvals

Approval details

| | | |
|--------------------------------|--|--|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E153698-20041116 |
| | | |
| mm ² /AWG/kcmil | | 4.0 |
| Nominal current I _N | | 27 A |
| Nominal voltage U _N | | 600 V |

| | | |
|--------------------------------|--|--|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E153698-20041116 |
| | | |
| mm ² /AWG/kcmil | | 4.0 |
| Nominal current I _N | | 18 A |
| Nominal voltage U _N | | 600 V |

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

| | | |
|------------------|--|---|
| cULus Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm |
|------------------|--|---|

Accessories

Accessories

Crimp contact

Crimp contact - SF-7RP2000 - 1605646



Crimp contact, turned, Single contact, Contact diameter: 2 mm, Crimp range: 0.14 mm²...0.25 mm²

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Accessories

Crimp contact - SF-7PP2000 - 1605634



Crimp contact, turned, Single contact, Contact diameter: 2 mm, Crimp range: 0.25 mm²...1 mm²

Crimp contact - SF-20KP004 - 1607376



Crimp contact, turned, Contact diameter: 2 mm, Crimp range: 0.75 mm²...1.5 mm²

Crimp contact - SF-7QP2000 - 1605639



Crimp contact, turned, Single contact, Contact diameter: 2 mm, Crimp range: 1 mm²...2.5 mm²

Crimp contact - SF-6CP2000 - 1605559



Crimp contact, turned, Single contact, Contact diameter: 1 mm, Crimp range: 0.06 mm²...0.25 mm²

Crimp contact - SF-10KP004 - 1607355



Crimp contact, turned, Single contact, Contact diameter: 1 mm, Crimp range: 0.14 mm²...0.5 mm²

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Accessories

Crimp contact - SF-6AP2000 - 1605554



Crimp contact, turned, Single contact, Contact diameter: 1 mm, Crimp range: 0.25 mm²...1 mm²

Mounting material

Color-coding - SF-Z0064 - 1620585



Color-coding, Color: green

Color-coding - SF-Z0065 - 1620586



Color-coding, Color: orange

Color-coding - SF-Z0066 - 1620587



Color-coding, Color: black

Square mounting flange - SF-Z0068 - 1620927



Square mounting flange, 4xM3, Flange dimensions: 38 mm x 38 mm

Protective cover

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Accessories

Plastic anti-static dust protection cap - SF-Z0019 - 1607449



Plastic dust protection cap, anti-static with IP40 eye, for RF, SF series connectors, with M23 external thread

Plastic dust protection cap - RC-Z2059 - 1604225



Plastic dust protection cap for connectors with M23 external thread

Plastic anti-static dust protection cap - RC-Z2469 - 1611797



Plastic dust protection cap, anti-static, for RF, SF series connectors, with M23 external thread

Metal dust protection cap - SC-Z2319 - 1605456



Metal dust protection cap for power plugs with M23 external thread

Metal dust protection cap - SC-Z2320 - 1605457



Metal dust protection cap with steel wire for power plugs with M23 external thread
