

## Coupler connector - SF-5EP1N8A90A3 - 1605498

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Coupler connector, straight short, for standard and SPEEDCON interlock, M23, number of positions: 5+PE, type of contact: Pin, Crimp connection, shielded: yes, cable diameter range: 11 mm ... 14 mm, Compatible with mating connectors with SPEEDCON or M23 standard knurled nuts

The figure shows the 8-pos. (4+3+PE) product version

### Your advantages

- ✓ Consistent EMC protection for reliable connection solutions in the industrial environment
- ✓ Crimping connection: vibration- and temperature-resistant assembly
- ✓ Flexible use: reliably connect various cable diameters



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 046356 253154 |
| GTIN                                 | 4046356253154   |
| Weight per Piece (excluding packing) | 54.330 g  |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Germany   |
| Note                                 | Made to Order (non-returnable)  |

### Technical data

#### General

|                                    |   |
|------------------------------------|---|
| Note                               | Order information: Order crimp contacts 6 x Ø 2 mm separately |
| Type of locking                    | for standard and SPEEDCON interlock                           |
| Coding                             | N   |
| Contact connection method          | Crimp connection  |
| Type of contacts                   | Pin   |
| Number of positions                | 6   |
| Contact diameter of power contacts | 2 mm  |
| Rated current for power contacts   | 30 A  |

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## Technical data

### General

|                                     |                 |
|-------------------------------------|-----------------|
| Contact diameter of signal contacts | 2 mm            |
| Nominal current per signal contact  | 30 A            |
| Conductor entry                     | 11 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 6.6   |
| 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      |
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| Rated surge voltage of signal contacts         | 6 kV   |
| Overvoltage category of signal contacts        | III    |
| Degree of pollution of signal contacts         | 3      |

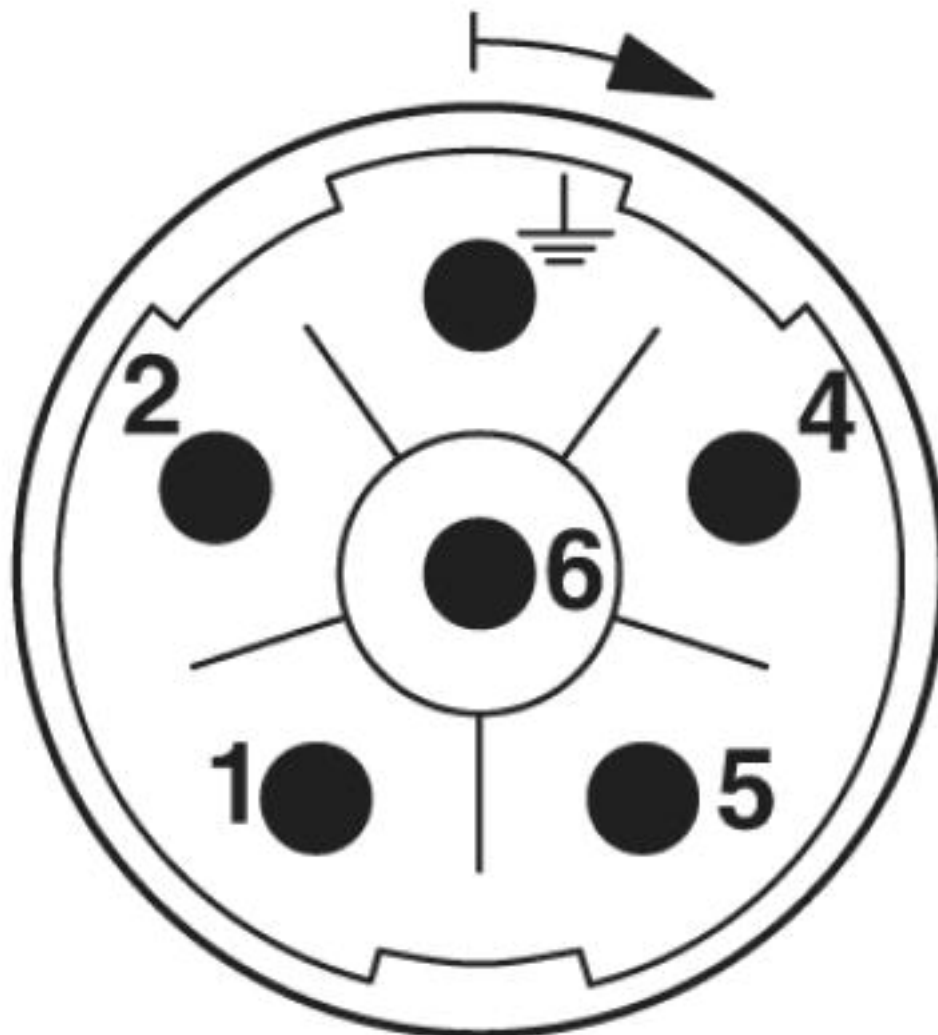
### Environmental Product Compliance

|            |   |
|------------|---|
| 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

# Coupler connector - SF-5EP1N8A90A3 - 1605498

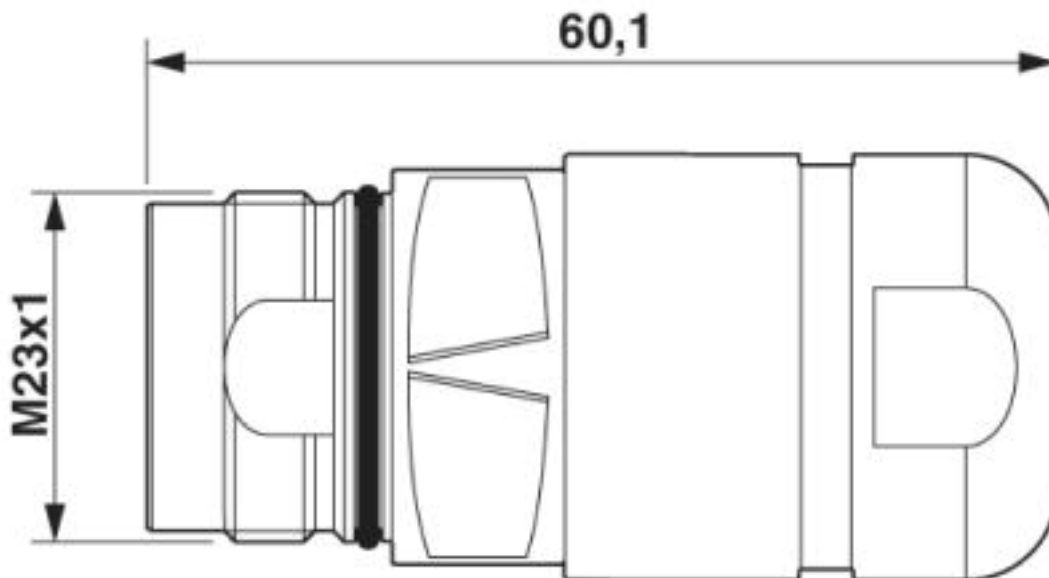
Schematic diagram



Connector pin assignment

# Coupler connector - SF-5EP1N8A90A3 - 1605498

Dimensional drawing



Dimensional drawing

## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27260700 |
| eCl@ss 4.1 | 27260700 |
| eCl@ss 5.0 | 27260700 |
| eCl@ss 5.1 | 27260700 |
| eCl@ss 6.0 | 27260700 |
| eCl@ss 7.0 | 27440102 |
| 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 |

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 18.0 | 39121413 |
| UNSPSC 19.0 | 39121413 |
| UNSPSC 20.0 | 39121413 |
| UNSPSC 21.0 | 39121413 |

## Approvals

### Approvals

Approvals

EAC

Ex Approvals

### Approval details

|     |  |         |
|-----|--|---------|
| EAC |  | B.01687 |
|-----|--|---------|

## Accessories

### Accessories

#### Crimp contact

Crimp contact - SF-7RP2000 - 1605646



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 0.14 mm<sup>2</sup> ... 0.25 mm<sup>2</sup>

Crimp contact - SF-7PP2000 - 1605634



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 0.25 mm<sup>2</sup> ... 1 mm<sup>2</sup>

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### Accessories

Crimp contact - SF-20KP004 - 1607376



Crimp contact, turned, contact diameter: 2 mm, crimp range: 0.75 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>

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Crimp contact - SF-7QP2000 - 1605639



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

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### Mounting material

Color-coding - SF-Z0064 - 1620585



Color-coding, color: green

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Color-coding - SF-Z0065 - 1620586



Color-coding, color: orange

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Color-coding - SF-Z0066 - 1620587



Color-coding, color: black

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## Coupler connector - SF-5EP1N8A90A3 - 1605498

### Accessories

Square mounting flange - SF-Z0068 - 1620927



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

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### Protective cover

Protective cap - SF-Z0019 - 1607449



Plastic protection cap, with eye, IP40 for connectors with M23 external thread, RF, SF series

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Protective cap - RC-Z2059 - 1604225



Plastic protection cap for connectors with M23 external thread

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



Plastic protection cap, antistatic, for RF, SF, CA, RC series connectors, with M23 external thread

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Metal protective cap - SC-Z2319 - 1605456



Metal protection cap for power connectors with M23 external thread

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## Coupler connector - SF-5EP1N8A90A3 - 1605498

### Accessories

Metal protective cap - SC-Z2320 - 1605457



Metal protection cap with steel wire for power connectors with M23 external thread

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