

## Coupler connector - SH-8EPC58A9LDLS - 1621549

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Coupling connector, SH, straight long, shielded: yes, for standard and SPEEDCON interlock, M23, No. of pos.: 4+4+4+PE / 3+N+PE, type of contact: Pin, Crimp connection, cable diameter range: 7.5 mm ... 18 mm

### Your advantages

- ✓ Transmission of signals, data, and power in just a single connector
- ✓ CAT5 data interface for up to 100 Mbps
- ✓ Safe use in the field, thanks to high degree of protection
- ✓ Consistent EMC protection for reliable connection solutions in the industrial environment

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 046356 936972 |
| GTIN         | 4046356936972                                                                                           |

### Technical data

#### Temperature range

|                                 |                   |
|---------------------------------|-------------------|
| Ambient temperature (operation) | -40 °C ... 130 °C |
|---------------------------------|-------------------|

#### Data of the insulating body

|                                        |                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------|
| Note                                   | Order information: Crimp contacts, 4x Ø 0.8 mm, 4x Ø 1 mm, 5x Ø 2 mm, order separately |
| Protection against electric shock      | IEC 61984 and VDE 0623                                                                 |
| Data rate                              | 100 Mbps                                                                               |
| Coding                                 | N                                                                                      |
| Insulator material                     | PA 6.6                                                                                 |
| Insertion/withdrawal cycles mechanical | 100                                                                                    |
| Contact connection method              | Crimp connection                                                                       |
| Type of contacts                       | Pin                                                                                    |
| Application                            | Hybrid                                                                                 |

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## Technical data

### Data of the insulating body

|                                                 |                                   |
|-------------------------------------------------|-----------------------------------|
| Number of positions                             | 13                                |
| Direction of rotation                           | Standard                          |
| Contact diameter of power contacts              | 2 mm                              |
| Litz wire cross section of power contacts min.  | 0.25 mm <sup>2</sup>              |
| Litz wire cross section of power contacts max.  | 4 mm <sup>2</sup>                 |
| Rated current for power contacts                | 30 A                              |
| Note                                            | for max. connection cross section |
| Rated surge voltage                             | 6 kV                              |
| Rated voltage (II/3) power contact              | 850 V DC                          |
| Rated voltage (III/3) power contact             | 630 V AC                          |
| Contact diameter of signal contacts             | 1 mm                              |
| Litz wire cross section of signal contacts min. | 0.06 mm <sup>2</sup>              |
| Litz wire cross section of signal contacts max. | 1 mm <sup>2</sup>                 |
| Nominal current per signal contact              | 8 A                               |
| Note                                            | for max. connection cross section |
| Rated surge voltage                             | 1.5 kV                            |
| Rated voltage (III/3) signal contact            | 50 V                              |
| Contact diameter, data contacts                 | 0.8 mm                            |
| Litz wire cross section, data contacts, min.    | 0.08 mm <sup>2</sup>              |
| Litz wire cross section, data contacts, max.    | 0.5 mm <sup>2</sup>               |
| Rated current of each data contact at 25°C      | 3.6 A                             |
| Note                                            | for max. connection cross section |
| Rated voltage of data contact                   | 50 V                              |
| Rated surge voltage                             | 1.5 kV                            |
| Installation height                             | 2000 m                            |

### Housing data

|                                        |                                                                                                    |
|----------------------------------------|----------------------------------------------------------------------------------------------------|
| Note                                   | The suitability for assembly must be checked when fully assigned with maximum wire cross sections. |
| Housing material                       | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)                               |
| Type of locking                        | for standard and SPEEDCON interlock                                                                |
| Degree of protection (when plugged in) | IP67                                                                                               |
|                                        | IP68                                                                                               |
| Thread type                            | M23                                                                                                |

### Cable seal data

|                |                  |
|----------------|------------------|
| Cable diameter | 7.5 mm ... 18 mm |
|----------------|------------------|

### Environmental Product Compliance

|            |                                                |
|------------|------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                 |
| China RoHS | Environmentally Friendly Use Period = 50 years |

## Coupler connector - SH-8EPC58A9LDLS - 1621549

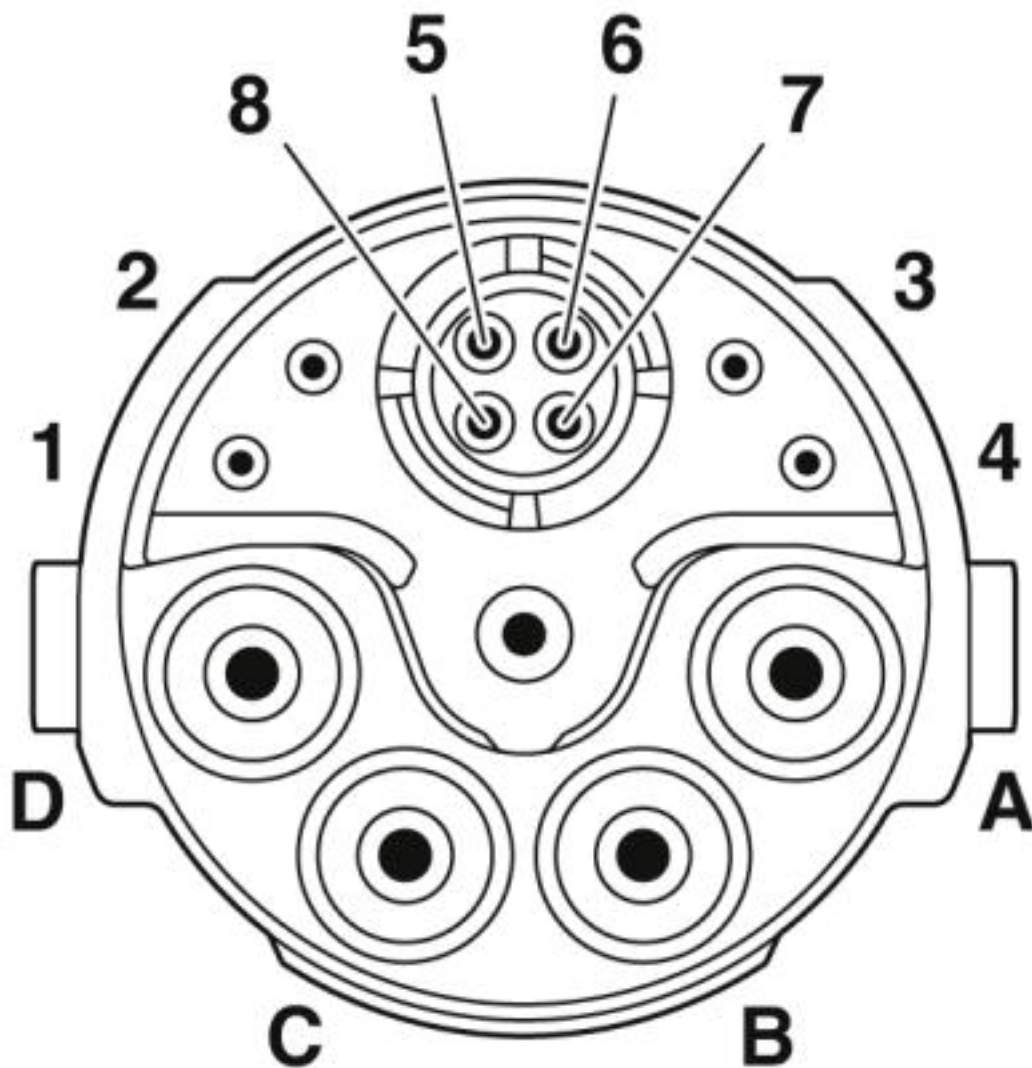
### Technical data

#### Environmental Product Compliance

|  |                                                                                                     |
|--|-----------------------------------------------------------------------------------------------------|
|  | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |
|--|-----------------------------------------------------------------------------------------------------|

### Drawings

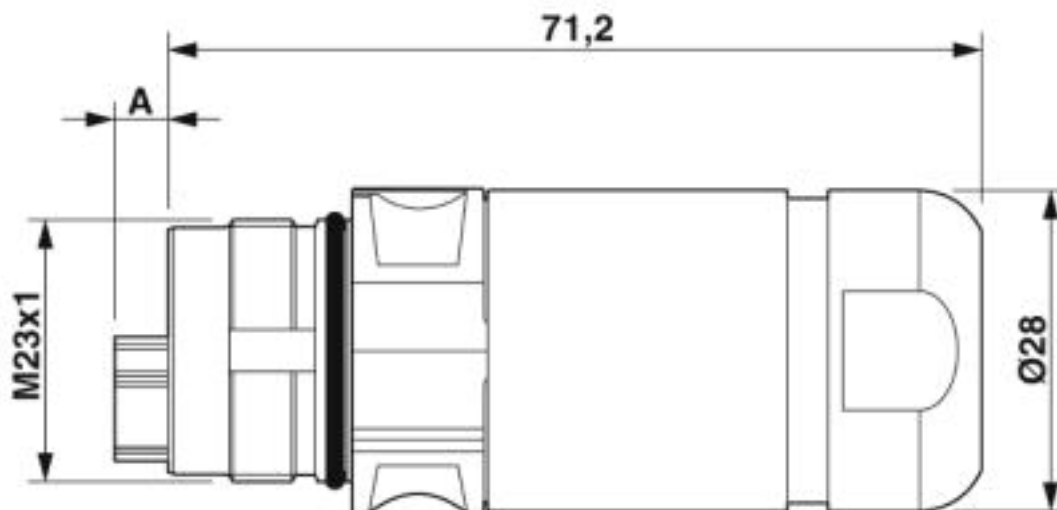
Schematic diagram



Pin assignment of pin, CAT5

## Coupler connector - SH-8EPC58A9LDLS - 1621549

Dimensional drawing



Pin version: dimension A = 4.7 mm, socket version: dimension A = 0 mm

### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440102 |
| 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    | 27440102 |

#### ETIM

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

#### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 13.2 | 39121413 |
| UNSPSC 18.0 | 39121413 |
| UNSPSC 19.0 | 39121413 |
| UNSPSC 20.0 | 39121413 |
| UNSPSC 21.0 | 39121413 |

## Coupler connector - SH-8EPC58A9LDLS - 1621549

### Approvals

#### Approvals

#### Approvals

EAC / UL Recognized / cUL Recognized / cULus Recognized

#### Ex Approvals

#### Approval details

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

|                            |                                                                                    |                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UL Recognized              |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> E153698-20181206 |
| Nominal voltage UN         |                                                                                    | 600 V                                                                                                                                                                  |
| Nominal current IN         |                                                                                    | 24 A                                                                                                                                                                   |
| mm <sup>2</sup> /AWG/kcmil |                                                                                    | 12                                                                                                                                                                     |

|                            |                                                                                     |                                                                                                                                                                        |
|----------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cUL Recognized             |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> E153698-20181206 |
| Nominal voltage UN         |                                                                                     | 600 V                                                                                                                                                                  |
| Nominal current IN         |                                                                                     | 21.4 A                                                                                                                                                                 |
| mm <sup>2</sup> /AWG/kcmil |                                                                                     | 12                                                                                                                                                                     |

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

### Accessories

#### Accessories

Cable by the meter

## Coupler connector - SH-8EPC58A9LDLS - 1621549

### Accessories

Hybrid cable - KC-88014311/1,00 - 1623127



Hybrid cable, length: 1 m, color of outer sheath: orange RAL 2003

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Hybrid cable - KC-88014311/100,00 - 1623039



Hybrid cable, length: 100 m, color of outer sheath: orange RAL 2003

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Hybrid cable - KC-88014311/20,00 - 1622080



Hybrid cable, length: 20 m, color of outer sheath: orange RAL 2003

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### Crimp contact

Crimp contact - ST-10KP010 - 1618255



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

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Crimp contact - ST-10KP035 - 1618458



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

## Coupler connector - SH-8EPC58A9LDLS - 1621549

### Accessories

Crimp contact - SF-20KP021 - 1621579



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

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Crimp contact - SF-20KP022 - 1621580



Crimp contact, turned, contact diameter: 2 mm, crimp range: 1.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

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Crimp contact - SF-20KP023 - 1621581



Crimp contact, turned, contact diameter: 2 mm, crimp range: 2.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>

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Crimp contact - SF-08KP010 - 1621574



Crimp contact, turned, contact diameter: 0.8 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.25 mm<sup>2</sup>

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Crimp contact - SF-08KP020 - 1621575



Crimp contact, turned, contact diameter: 0.8 mm, crimp range: 0.34 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>

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### Mounting material

## Coupler connector - SH-8EPC58A9LDLS - 1621549

### Accessories

Square mounting flange - SF-Z0068 - 1620927



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

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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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### Protective cover

Metal protective cap - SH-Z2302 - 1622139



Metal protection cap with steel wire, for M23 hybrid connectors with external thread

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## Coupler connector - SH-8EPC58A9LDLS - 1621549

### Accessories

Protective cap - SH-Z2304 - 1622137



Plastic protection cap for M23 hybrid connectors with external thread

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Metal protective cap - SH-Z2303 - 1622138



Metal protection cap for M23 hybrid connectors with external thread

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Sample set - M23 HYBRID\_CONTACT-SAMPLE-SET - 1623252



Sample set consisting of 4 x Ø 1.0 mm, 4 x Ø 0.8 mm, 5 x Ø 2.0 mm for all socket and pin contacts for M23 hybrid connectors. Contacts included: 1621573, 1618254, 1621577, 1621575, 1618261, 1621580

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>