

## Cable connector - CA-09S1N1280DN - 1619768

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Cable connector, straight, shielded: yes, Screw locking, M23, Number of positions: 8+1, Type of contact: Socket, Solder connection, Cable diameter: 3 mm ... 14.5 mm

The figure shows the 6-pos. product version

### Why buy this product

- ✓ Safe use in the field, thanks to high degree of protection
- ✓ Connector for flexible on-site assembly
- ✓ Consistent EMC protection for reliable transmission of signals
- ✓ Solder connection: proven connection technology for various litz wires



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 STK                                                                                                   |
| GTIN                                 | <br>4 046356 821490 |
| GTIN                                 | 4046356821490                                                                                           |
| Weight per Piece (excluding packing) | 96.900 g                                                                                                |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Germany                                                                                                 |
| Note                                 | Made to Order (non-returnable)                                                                          |

### Technical data

#### Temperature range

|                                 |                   |
|---------------------------------|-------------------|
| Ambient temperature (operation) | -40 °C ... 125 °C |
|---------------------------------|-------------------|

#### Data of the insulating body

|                           |                   |
|---------------------------|-------------------|
| Coding                    | N                 |
| Insulator material        | PBT               |
| Contact material          | CuZn              |
| Contact surface material  | Ni/Au             |
| Contact connection method | Solder connection |

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### Technical data

#### Data of the insulating body

|                                                 |                      |
|-------------------------------------------------|----------------------|
| Type of contacts                                | Socket               |
| Number of positions                             | 9                    |
| Contact diameter of power contacts              | 2 mm                 |
| Litz wire cross section of power contacts min.  | 0.08 mm <sup>2</sup> |
| Litz wire cross section of power contacts max.  | 2.5 mm <sup>2</sup>  |
| Nominal current per power contact at 25°C       | 20 A                 |
| Nominal voltage, power contact                  | 300 V                |
| Rated surge voltage                             | 2.5 kV               |
| Contact diameter of signal contacts             | 1 mm                 |
| Litz wire cross section of signal contacts min. | 0.08 mm <sup>2</sup> |
| Litz wire cross section of signal contacts max. | 1 mm <sup>2</sup>    |
| Nominal current per signal contact at 25°C      | 8 A                  |
| Nominal voltage, signal contact                 | 300 V                |
| Overvoltage category                            | II                   |
| Degree of pollution                             | 3                    |

#### Housing data

|                                        |                                                                      |
|----------------------------------------|----------------------------------------------------------------------|
| Housing material                       | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn) |
| Type of locking                        | Screw locking                                                        |
| Degree of protection (when plugged in) | IP67                                                                 |
| Thread type                            | M23                                                                  |

#### Cable seal data

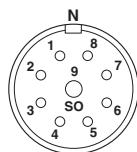
|                     |         |
|---------------------|---------|
| Min. cable diameter | 3 mm    |
| Max. cable diameter | 14.5 mm |
| Sealing material    | NBR     |

#### Environmental Product Compliance

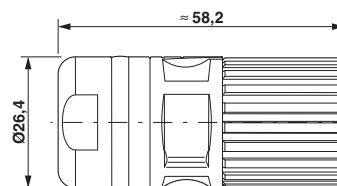
|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50           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

### Drawings

Schematic diagram



Dimensional drawing



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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 272607xx |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27260702 |
| eCl@ss 7.0 | 27440102 |
| eCl@ss 8.0 | 27440102 |
| eCl@ss 9.0 | 27440103 |

#### ETIM

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

#### 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

#### Approval details

|                                |                                                                                     |                                                                                                                                                                        |
|--------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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> E335019-20141210 |
| mm²/AWG/kcmil                  | 18                                                                                  |                                                                                                                                                                        |
| Nominal current I <sub>N</sub> | 8 A                                                                                 |                                                                                                                                                                        |
| Nominal voltage U <sub>N</sub> | 300 V                                                                               |                                                                                                                                                                        |

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### Approvals

|                                |                                                                                   |                                                                                                                                                                        |
|--------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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> E335019-20141210 |
| mm²/AWG/kcmil                  | 18                                                                                |                                                                                                                                                                        |
| Nominal current I <sub>N</sub> | 6 A                                                                               |                                                                                                                                                                        |
| Nominal voltage U <sub>N</sub> | 300 V                                                                             |                                                                                                                                                                        |

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

|                  |                                                                                   |                                                                                                                                                       |
|------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| cULus 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> |
|------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

### Accessories

#### Accessories

#### Mounting material

Torque screwdriver - SF-Z0028 - 1607456



Torque screwdriver

Hook wrench - SF-Z0027 - 1607455



Hook wrench

Color-coding - RF-Z0014 - 1620588



Color-coding, Color: green

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### Accessories

Color-coding - RF-Z0015 - 1620592



Color-coding, Color: orange

Color-coding - RF-Z0016 - 1620593



Color-coding, Color: black

Square mounting flange - RF-Z0003 - 1607905



Square mounting flange, Seal, axial, 4xM3, flange dimensions: 35 mm x 35 mm

### Protective cover

Plastic dust protection cap - RC-Z2058 - 1604223



Plastic dust protection cap for connectors with M23 knurled nuts

Plastic anti-static dust protection cap - RC-Z2468 - 1611796



Plastic dust protection cap, anti-static, for connectors with M23 knurled nuts