

# CA-07P1N12T007 - Cable connector



1620257

<https://www.phoenixcontact.com/us/products/1620257>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



M23, Cable connector, series: CA, angled, shielded: yes, Screw locking mechanism, No. of pos.: 7, Direction of rotation: Standard, contact connection type: Pin, Solder connection, cable diameter range: 6 mm ... 10 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244108

## Your advantages

- Angled cable outlet for confined spaces
- Can be adapted to various applications, thanks to adjustable cable outlet direction
- 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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1620257                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAEC                         |
| Catalog page                         | Page 92 (C-2-2019)             |
| GTIN                                 | 4046356818261                  |
| Weight per piece (including packing) | 146.144 g                      |
| Weight per piece (excluding packing) | 146.144 g                      |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

# CA-07P1N12T007 - Cable connector



1620257

<https://www.phoenixcontact.com/us/products/1620257>

## Technical data

### Product properties

|              |                                 |
|--------------|---------------------------------|
| Product type | Circular connector (cable-side) |
|--------------|---------------------------------|

### Connector

#### Insulating body

|                                                     |                     |
|-----------------------------------------------------|---------------------|
| Coding                                              | N                   |
| Insulation body material                            | PBT                 |
| Contact material                                    | CuZn                |
| Contact surface material                            | Ni/Au               |
| Insertion/withdrawal cycles                         | 100                 |
| Connection method                                   | Solder connection   |
| Contact switching type                              | Pin                 |
| Application                                         | Signal              |
| Number of positions                                 | 7                   |
| Direction of rotation                               | Standard            |
| Connection profile                                  | 7                   |
| Rated voltage                                       | 48 V AC             |
|                                                     | 74 V DC             |
| Rated surge voltage                                 | 1.5 kV              |
| Overvoltage category                                | III                 |
| Degree of pollution                                 | 3                   |
| Contact diameter <b>Signal contacts</b>             | 2 mm                |
| Litz wire cross-section <b>Signal contacts</b> max. | 2.5 mm <sup>2</sup> |
| Nominal current per signal contact                  | 20 A                |

#### Housing

|                                   |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| Housing material                  | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn) |
| Type of locking                   | Screw locking mechanism                                              |
| Pg screw connection               | none                                                                 |
| Degree of protection (plugged in) | IP67                                                                 |
| Thread type                       | M23                                                                  |

#### Seal

|                         |                |
|-------------------------|----------------|
| External cable diameter | 6 mm ... 10 mm |
| Seal material           | NBR            |

### Environmental and real-life conditions

#### Ambient conditions

|                                         |                   |
|-----------------------------------------|-------------------|
| Ambient temperature (operation)         | -40 °C ... 125 °C |
| Ambient temperature (storage/transport) | 15 °C ... 25 °C   |

# CA-07P1N12T007 - Cable connector



1620257

<https://www.phoenixcontact.com/us/products/1620257>

|                                          |               |
|------------------------------------------|---------------|
| Permissible humidity (storage/transport) | 50 % ... 65 % |
|------------------------------------------|---------------|

# CA-07P1N12T007 - Cable connector

1620257

<https://www.phoenixcontact.com/us/products/1620257>



## Drawings

Schematic diagram



Connector pin assignment

# CA-07P1N12T007 - Cable connector

1620257

<https://www.phoenixcontact.com/us/products/1620257>



Dimensional drawing



Dimensional drawing

# CA-07P1N12T007 - Cable connector



1620257

<https://www.phoenixcontact.com/us/products/1620257>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1620257>

|                                                                                                                                          |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cUL Recognized</b><br>Approval ID: E335019-20141210 |                       |                       |                   |                             |
|                                                                                                                                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                          | 48 V                  | 10 A                  | - 14              | -                           |

|                                                                                                                                         |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>UL Recognized</b><br>Approval ID: E335019-20141210 |                       |                       |                   |                             |
|                                                                                                                                         | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                         | 48 V                  | 20 A                  | - 14              | -                           |

|                         |  |  |  |  |
|-------------------------|--|--|--|--|
| <b>cULus Recognized</b> |  |  |  |  |
|-------------------------|--|--|--|--|

# CA-07P1N12T007 - Cable connector



1620257

<https://www.phoenixcontact.com/us/products/1620257>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

# CA-07P1N12T007 - Cable connector



1620257

<https://www.phoenixcontact.com/us/products/1620257>

## Environmental product compliance

|            |                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                               |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                               |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

# CA-07P1N12T007 - Cable connector

1620257

<https://www.phoenixcontact.com/us/products/1620257>



## Accessories

### SF-Z0028 - Torque screwdriver

1607456

<https://www.phoenixcontact.com/us/products/1607456>

Torque screwdriver, series: RC, UC, SH, SF



---

### SF-Z0027 - Hook wrench

1607455

<https://www.phoenixcontact.com/us/products/1607455>

Hook wrench, series: RC, UC, RF, SF



# CA-07P1N12T007 - Cable connector



1620257

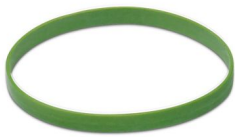
<https://www.phoenixcontact.com/us/products/1620257>

## RF-Z0014 - Color coding

1620588

<https://www.phoenixcontact.com/us/products/1620588>

Color coding, color: green



---

## RF-Z0015 - Color coding

1620592

<https://www.phoenixcontact.com/us/products/1620592>

Color coding, color: orange



# CA-07P1N12T007 - Cable connector

1620257

<https://www.phoenixcontact.com/us/products/1620257>



## RF-Z0016 - Color coding

1620593

<https://www.phoenixcontact.com/us/products/1620593>

Color coding, color: black



---

## PROT-M23-SG-IT-IP20 - Plastic protective cap

1577206

<https://www.phoenixcontact.com/us/products/1577206>

Plastic protective cap, M23, degree of protection: IP20, series: CA, RC, RF, UC, RM



---

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)