

cannon

# CA Threaded Catalog



**ITT**

# Proven Quality, Reliability & Expertise

ITT Cannon is a leading global manufacturer of connector products serving international customers in the aerospace and defense, medical, energy, transportation and industrial end markets.

Whether delivering critical specs to aircraft pilots, streaming data through communications satellites or giving expectant parents a first look at their unborn children, Cannon connects the world's most important information to the people who need it.



## About ITT

ITT is a diversified leading manufacturer of highly engineered critical components and customized technology solutions for the energy, transportation and industrial markets. Building on its heritage of innovation, ITT partners with its customers to deliver enduring solutions to the key industries that underpin our modern way of life.

Founded in 1920, ITT is headquartered in Stamford, Connecticut, with employees in more than 35 countries and sales in a total of approximately 125 countries. For more information, visit [itt.com](http://itt.com)



Industrial / Instrumentation



Defense Vehicles



Medical



Heavy Equipment



Rail



Oil & Gas



Commercial & Military Aerospace

Our connector portfolio remains the most extensive in the industry.

Offering a reliable and cost effective range of interconnect solutions.

# Introduction

ITT Cannon's circular metal connector series CA Threaded is one of the market standards for harsh environment applications in commercial as well as military applications. Derived from the military standard MIL-C-5015 the product portfolio expanded to meet the needs of industrial and heavy vehicle applications around the globe. As a result the commercial offering exceeds the military portfolio by more than 30%.

## Features and benefits

CA Threaded offers a range of features and benefits to customers in all kind of industrial and heavy vehicle markets:

- Threaded coupling mechanism offering extraordinary vibration resistance
- A wide range of contacts for both solder and crimp applications allowing to connect the full wire range up to 50mm<sup>2</sup> cross section
- An extensive range of backshells offering connections of all typical cable solutions with individual wires or jacket cables in shielded or unshielded versions
- Materials that allow to meet the stringent requirements of industrial and especially heavy vehicle markets as
  - temperatures ranging from -55°C up to +200°C
  - media resistance\* as brake liquids, gasoline, lubricants and others
  - RoHS compliant product versions including Military VG approved A241 Tin Zinc Matt Grey and Industrial A240 Zinc Nickel Blue Generation plated products

**Contact us for detail or your request for a customized solution.**

\*short time wetting

**This document solely applies to European manufactured CA Threaded products.**

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Dimensions shown in mm | Specifications and dimensions subject to change

# How to use

This catalog is split in several sections to provide...

- A brief introduction to ITT Cannon and CA Threaded
- A general overview of the CA Threaded product lines
- Detailed product information including contact arrangements, performance and part number data
- Detailed supporting information including accessories and tooling

The fastest way to find your product of choice is to follow these steps

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**1** **Select your product** using the “ordering reference” option

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**3** **Add accessories and tooling options** on the related pages. A connector assembly instruction is available upon request or visit [www.ittcannon.com](http://www.ittcannon.com)

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**2** **Use the detail pages** to better understand the available options like connector styles, contact arrangements and contacts options

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**4** **Use the contact information** on the back cover to contact us for further questions or to get advise on where you can purchase our products

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# Product overview

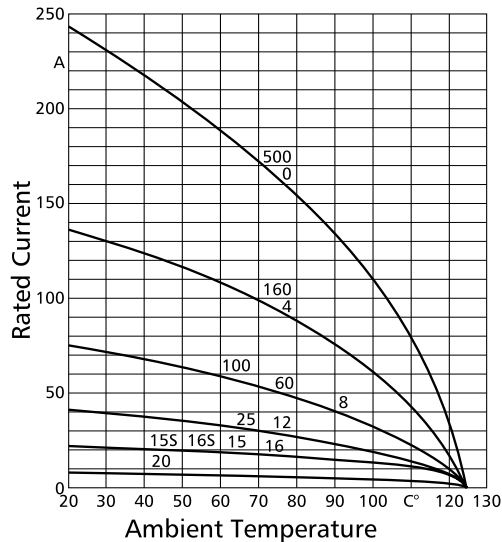
## ELECTRICAL DATA

### Contact Rating at 20°C (68°F), ambient temperature

| Contact size (AWG/metric) | Rated Current (A <sub>max.</sub> ) <sup>1</sup> |
|---------------------------|---|
| 20/10                     | 8   |
| 16S/15S                   | 22  |
| 16/15                     | 22  |
| 12                        | 41  |
| 8/60/100                  | 74  |
| 4/160                     | 135   |
| 0/500                     | 245   |

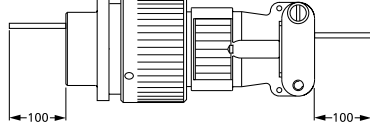
<sup>1</sup>This applies only to the max. rated current for one contact. If several contacts in one contact arrangement are loaded with higher current the temperature may not exceed 125°C

### Rated Current vs. Ambient Temperature



### Contacts Resistance (Millivolt test)

| Contact size (AWG/metric) | Contact resistance mΩ max. |
|---------------------------|----------------------------|
| 20/10                     | 12,0                       |
| 16S/15S                   | 6,0                        |
| 16/15                     | 6,0                        |
| 12/25                     | 3,0                        |
| 8/100                     | 1,0                        |
| 4/160                     | 0,3                        |
| 0/500                     | 0,2                        |



### Insulation Resistance

Standard insulator material >1000 MΩ  
FKM insulator material (upon request) >5000 MΩ

### Air and Creepage Path (min.)

| Voltage class     | Instr. | A   | D   | E   |
|-------------------|--------|-----|-----|-----|
| Air path, mm      | 0,7    | 1,1 | 2,8 | 4,8 |
| Creepage path, mm | 0,7    | 1,1 | 2,8 | 4,8 |

### Operation Voltage

Operating voltage for CA Threaded connectors is limited to 50VAC / 75VDC according to the safety regulations defined in the European Low Voltage Directive (LVD) 2014/35/EU. For other uses or regions please see appropriate regional regulations.

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## Test voltage

| Service rating | Test voltage V <sub>rms</sub> |
|----------------|-------------------------------|
| Instruments    | 1050                          |
| A              | 1600                          |
| B              | 4500                          |
| D              | 2500                          |
| E              | 3000                          |

## MECHANICAL FEATURES

### Ambient temperature

Neoprene: -55/125°C (-67/257°F), FKM: -30/200°C (-22/392°F)\*

## ENVIRONMENTAL SEALING

Up to IP 65 (in mated condition) Acc. to DIN EN 60068-1

### Mating Cycles min. 500

### Min. Separating Force per Contact

| Contact size |        | Separating force |
|--------------|--------|------------------|
| metric       | AWG    | N min            |
| 10           | 20     | 0,3              |
| 15S/15       | 16S/16 | 1,0              |
| 25           | 12     | 1,5              |
| 60/100       | 8      | 3,0              |
| 160          | 4      | 4,0              |
| 500          | 0      | 8,5              |

### Contact Retention Apply test force in mating direction

| Contact size |        | Test force |
|--------------|--------|------------|
| metric       | AWG    | N          |
| 10           | 20     | 30         |
| 15S/15       | 16S/16 | 35         |
| 25           | 12     | 55         |
| 60/100       | 8      | 80         |
| 160          | 4      | 90         |
| 500          | 0      | 95         |

### Coupling Torque

The admissible coupling torque has to be tested under harnessed condition

| Shell size | Admissible torque                        |                              |
|------------|--|------------------------------|
|            | Closing and opening (Nm <sub>max</sub> ) | Opening (Nm <sub>min</sub> ) |
| 10SL       | 3,0                                      | 0,15                         |
| 12S        | 2,8                                      | 0,23                         |
| 14S        | 5,9                                      | 0,35                         |
| 16S/16     | 7,0                                      | 0,46                         |
| 18         | 8,0                                      | 0,58                         |
| 20         | 9,0                                      | 0,70                         |
| 22         | 10,6                                     | 0,80                         |
| 24         | 12,9                                     | 0,80                         |
| 28         | 16,7                                     | 0,92                         |
| 32         | 18,1                                     | 1,02                         |
| 36         | 23,9                                     | 1,05                         |

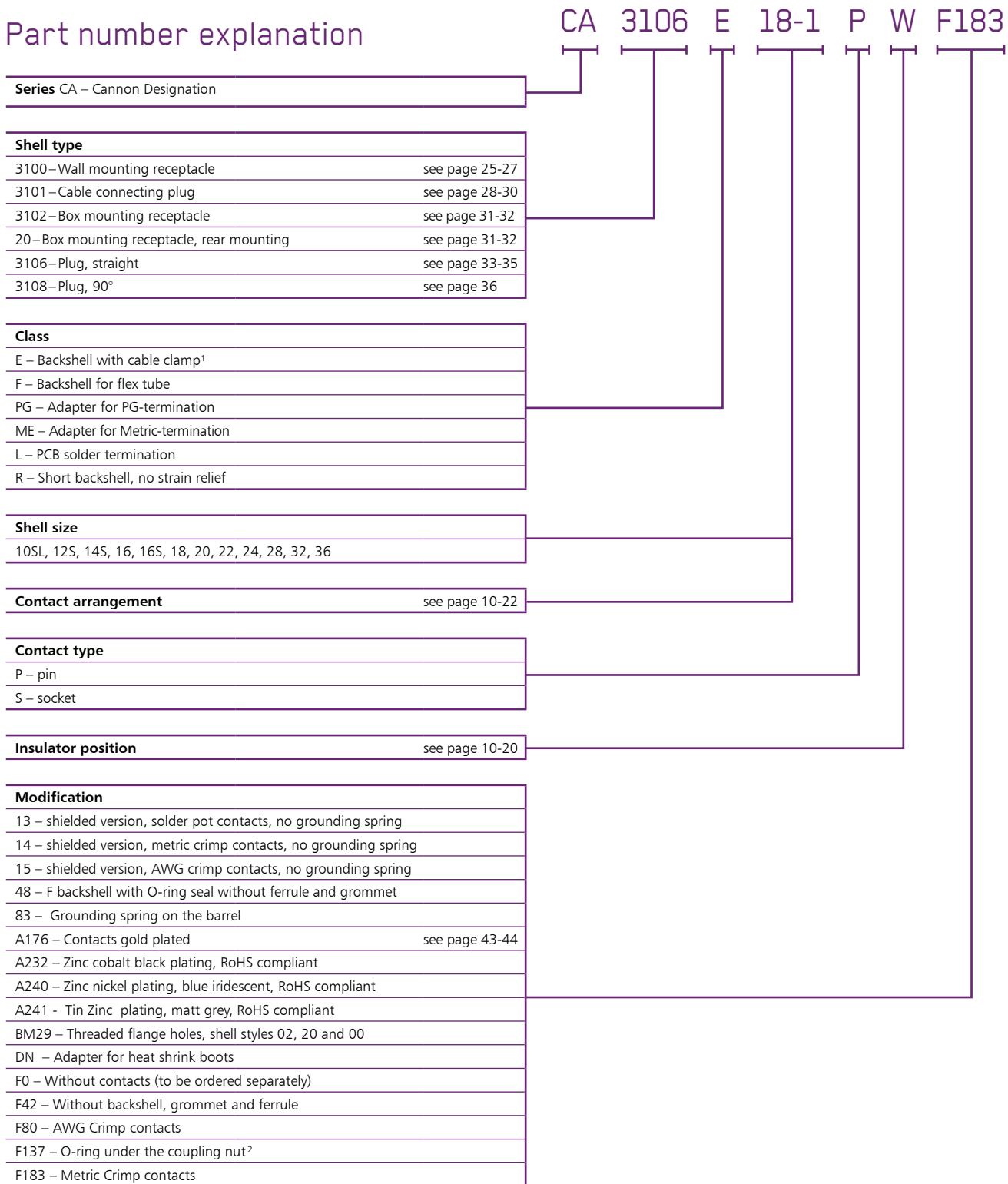
## Materials

|                   |  |
|-------------------|--|
| Shell             | Aluminum alloy                                       |
| Contacts          | Copper alloy, silver plated or gold plated           |
| Insulator/Grommet | Polychloroprene (Standard)<br>FKM (High temperature) |

\* consult factory

# Ordering reference

## Part number explanation



<sup>1</sup> except shell style 02/20 <sup>2</sup> a number of plugs are already featured with this O-ring

Default for any CA Threaded connector is solder cup contacts. Unless one of the contact modification codes listed above is used the connectors will be supplied with solder cup contacts.

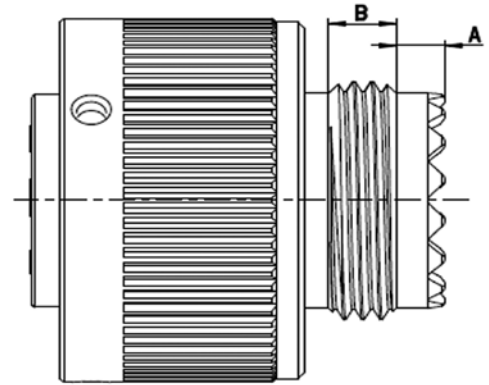
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## ENDBELL MODIFICATION -F42

Below table shows the different threads that come with the respective shell sizes when choosing the modification -F42 (no endbell/grommet seal). This modification is only applicable to styles 0 (wall mounting receptacle), 1 (cable connecting plug), 6 (straight plug) and 8 (90° angled plug).

| Shell size | Thread          | A +/- 0,1 (mm) | B (mm) |
|------------|-----------------|----------------|--------|
| 10SL       | 9/16-24UNEF-2A  | 3.40           | 5.05   |
| 12S        | 5/8-24UNEF-2A   | 3.4            | 4.7    |
| 14S        | 3/4-20UNEF-2A   | 3.4            | 4.7    |
| 16         | 7/8-20UNEF-2A   | 4.1            | 7.6    |
| 16S        | 7/8-20UNEF-2A   | 4.1            | 4      |
| 18         | 1-20UNEF-2A     | 3.5            | 6.9    |
| 20         | 1 1/8-18UNEF-2A | 4.6            | 5.5    |
| 22         | 1 1/4-18UNEF-2A | 4.6            | 5.5    |
| 24         | 1 3/8-18UNEF-2A | 4.6            | 7.2    |
| 28         | 1 5/8-18UNEF-2A | 4.6            | 7.2    |
| 32         | 1 7/8-16UNEF-2A | 4.6            | 7.9    |
| 36         | 2 1/8-16UN-2A   | 4.6            | 7.9    |




















## CONTACT ARRANGEMENTS

| View on Mating face of Pin Insulator  | No. of Contacts | Contact arrangement<br>Contact size | Service rating | Insulator position |     |     |     | Position | Special polarization |
|---|-----------------|-------------------------------------|----------------|--------------------|-----|-----|-----|----------|----------------------|
|   |                 |                                     |                | W                  | X   | Y   | Z   |          |                      |
|      | 3               | <b>10SL-3</b><br>16S                | A              | –                  | –   | –   | –   | –        | –                    |
|      | 2               | <b>10SL-4</b><br>16S                | A              | –                  | –   | –   | –   | –        | –                    |
| ◆    | 2               | <b>12S-3</b><br>16S                 | A              | 70                 | 145 | 215 | 290 | –        | –                    |
|      | 1               | <b>12S-4</b><br>16S                 | D              | –                  | –   | –   | –   | –        | –                    |
|      | 4               | <b>12SA10</b><br>16S                | Instr.         | –                  | –   | –   | –   | 3<br>8   | 110<br>250           |
|      | 3               | <b>14S-1</b><br>16S                 | A              | –                  | –   | –   | –   | –        | –                    |
|      | 4               | <b>14S-2</b><br>16S                 | Instr.         | –                  | 120 | 240 | –   | –        | –                    |
|      | 1               | <b>14S-4</b><br>16S                 | D              | –                  | –   | –   | –   | –        | –                    |
|     | 5               | <b>14S-5</b><br>16S                 | Instr.         | –                  | 110 | –   | –   | –        | –                    |
|    | 6               | <b>14S-6</b><br>16S                 | Instr.         | –                  | –   | –   | –   | –        | –                    |
| ◆  | 3               | <b>14S-7</b><br>16S                 | A              | 90                 | 180 | 270 | –   | –        | –                    |
|    | 2               | <b>14S-9</b><br>16S                 | Instr.         | 70                 | 145 | 215 | 290 | –        | –                    |
|    | 7               | <b>14SA7</b><br>16S                 | Instr.         | –                  | –   | –   | –   | –        | –                    |
| ◆  | 7               | <b>16S-1</b><br>16S                 | A              | 80                 | –   | –   | 280 | –        | –                    |
|    | 2               | <b>16S-4</b><br>16S                 | D              | 35                 | 110 | 250 | 325 | –        | –                    |
| ◆  | 3               | <b>16S-5</b><br>16S                 | A              | 70                 | 145 | 215 | 290 | –        | –                    |
|    | 5               | <b>16S-8</b><br>16S                 | A              | –                  | 170 | 265 | –   | –        | –                    |

◆Attention: For all insert rotations, it is possible for miss-mating to occur. It is the responsibility of the customer to ensure they have selected correctly.


















## CONTACT ARRANGEMENTS

| View on Mating face of Pin Insulator  | No. of Contacts | Contact arrangement<br>Contact size | Service rating                           | Insulator position |     |      |     | Position | Special polarization |
|---|-----------------|-------------------------------------|--|--------------------|-----|------|-----|----------|----------------------|
|   |                 |                                     |  | W                  | X   | Y    | Z   |          |                      |
|    | 3<br>2<br>1     | <b>16-7</b><br>16<br>8              | A  | 80                 | 110 | 250  | 280 | -        | -                    |
|    | 4<br>2<br>2     | <b>16-9</b><br>12<br>16             | A  | 35                 | 110 | 250  | 325 | -        | -                    |
| ◆  | 3               | <b>16-10</b><br>12                  | A  | 90                 | 180 | 270  | -   | -        | -                    |
|    | 2               | <b>16-11</b><br>12                  | A  | 35                 | 110 | 250  | 325 | -        | -                    |
|    | 1               | <b>16-12</b><br>4                   | A  | -                  | -   | -    | -   | -        | -                    |
|    | 2               | <b>16A11</b><br>12                  | A  | 35                 | 110 | 250  | 325 | -        | -                    |
| ◆  | 10              | <b>18-1</b><br>16                   | A (B, C,<br>F, G) Instr.<br>(all others) | 70                 | 145 | 215* | 290 | -        | -                    |
|    | 2               | <b>18-3</b><br>12                   | D  | 35                 | 110 | 250  | 325 | -        | -                    |
|  | 4               | <b>18-4</b><br>16                   | D  | 35                 | 110 | 250  | 325 | -        | -                    |
|  | 3<br>2<br>1     | <b>18-5</b><br>12<br>16             | D  | 80                 | 110 | 250  | 280 | -        | -                    |
|  | 1               | <b>18-6</b><br>4                    | D  | -                  | -   | -    | -   | -        | -                    |
|  | 1               | <b>18-7</b><br>8                    | D  | -                  | -   | -    | -   | -        | -                    |
|  | 8<br>1<br>7     | <b>18-8</b><br>12<br>16             | A  | 70                 | -   | -    | 290 | -        | -                    |
|  | 7<br>2<br>5     | <b>18-9</b><br>12<br>16             | Instr.                                   | 80                 | 110 | 250  | 280 | -        | -                    |
|  | 4               | <b>18-10</b><br>12                  | A  | -                  | 120 | 240  | -   | -        | -                    |
|  | 5               | <b>18-11</b><br>12                  | A  | -                  | 170 | 265  | -   | -        | -                    |
|  | 6               | <b>18-12</b><br>16                  | A  | 80                 | -   | -    | 280 | -        | -                    |

\*Caution: This insulator rotation is not recommended as it can mate with normal rotation connectors.

◆Attention: For all insert rotations, it is possible for miss-mating to occur. It is the responsibility of the customer to ensure they have selected correctly.

## CONTACT ARRANGEMENTS

| View on Mating face of Pin Insulator  | No. of Contacts | Contact arrangement<br>Contact size | Service rating                   | Insulator position |     |     |     | Position | Special polarization |
|---|-----------------|-------------------------------------|----------------------------------|--------------------|-----|-----|-----|----------|----------------------|
|   |                 |                                     |                                  | W                  | X   | Y   | Z   |          |                      |
|    | 4<br>1<br>3     | <b>18-13</b><br>8<br>12             | A                                | 80                 | 110 | 250 | 280 | –        | –                    |
|    | 7<br>2<br>5     | <b>18-17</b><br>12<br>16            | Instr.                           | –                  | –   | –   | –   | 12       | 100                  |
|    | 10              | <b>18-19</b><br>16                  | A                                | –                  | 120 | 240 | –   | –        | –                    |
|    | 5               | <b>18-20</b><br>16                  | A                                | 90                 | 180 | 270 | –   | –        | –                    |
|    | 3               | <b>18-21</b><br>12                  | A                                | –                  | –   | –   | –   | –        | –                    |
|    | 3               | <b>18-22</b><br>16                  | D                                | 70                 | 145 | 215 | 290 | –        | –                    |
|    | 1               | <b>20-2</b><br>0                    | D                                | –                  | –   | –   | –   | –        | –                    |
|    | 3               | <b>20-3</b><br>12                   | D                                | 70                 | 145 | 215 | 290 | –        | –                    |
|   | 4               | <b>20-4</b><br>12                   | D                                | 45                 | 110 | 250 | –   | –        | 250<br>(20A37)       |
|  | 3               | <b>20-6</b><br>16                   | D                                | –                  | –   | –   | –   | –        | –                    |
|  | 8               | <b>20-7</b><br>16                   | A (C, D, E, F) D<br>(A, B, H, G) | 80                 | 110 | 250 | 280 | –        | –                    |
|  | 6<br>2<br>4     | <b>20-8</b><br>8<br>16              | Instr.                           | 80                 | 110 | 250 | 280 | –        | –                    |
|  | 13              | <b>20-11</b><br>16                  | Instr.                           | –                  | –   | –   | –   | –        | –                    |
|  | 5<br>3<br>2     | <b>20-14</b><br>12<br>8             | A                                | 80                 | 110 | 250 | 280 | –        | –                    |
|  | 7               | <b>20-15</b><br>12                  | A                                | 80                 | –   | –   | 280 | –        | –                    |
|  | 9<br>2<br>7     | <b>20-16</b><br>12<br>16            | A                                | 80                 | 110 | 250 | 280 | –        | –                    |
|  | 6<br>5<br>1     | <b>20-17</b><br>12<br>16            | A                                | 90                 | 180 | 270 | –   | –        | –                    |

◆Attention: For all insert rotations, it is possible for miss-mating to occur. It is the responsibility of the customer to ensure they have selected correctly.

## CONTACT ARRANGEMENTS

| View on Mating face of Pin Insulator        | No. of Contacts | Contact arrangement<br>Contact size | Service rating         | Insulator position |          |          |              | Position          | Special polarization |
|---|-----------------|-------------------------------------|------------------------|--------------------|----------|----------|--------------|-------------------|----------------------|
|   |                 |                                     |                        | W                  | X        | Y        | Z            |                   |                      |
|   | 9<br>3<br>6     | <b>20-18</b><br>12<br>16            | A                      | 35                 | 110      | 250      | 325          | –                 | –                    |
|   | 3               | <b>20-19</b><br>8                   | A                      | 90                 | 180      | 270      | –            | –                 | –                    |
|   | 6<br>3<br>3     | <b>20-22</b><br>8<br>16             | A                      | 80                 | ◆<br>110 | ◆<br>250 | 280          | –                 | –                    |
|   | 2               | <b>20-23</b><br>8                   | A                      | 35                 | 110      | 250      | 325          | –                 | –                    |
|   | 4<br>2<br>2     | <b>20-24</b><br>8<br>16             | A                      | 35                 | 110      | 250      | 325          | –                 | –                    |
|   | 14              | <b>20-27</b><br>16                  | A                      | 35                 | 110      | 250      | 325          | –                 | –                    |
|   | 17              | <b>20-29</b><br>16                  | A                      | 80                 | –        | –        | 280          | –                 | –                    |
|   | 11              | <b>20-33</b><br>16                  | A                      | –                  | –        | –        | 2<br>3<br>17 | 260<br>110<br>130 | –                    |
|   | 9               | <b>20A9</b><br>12                   | Instr.<br>(all others) | –                  | 110      | 250      | –            | –                 | –                    |
|   | 24              | <b>20A24</b><br>20                  | –                      | –                  | –        | –        | –            | –                 | –                    |
| No solder pot contacts available for #10/20 |                 |                                     |                        |                    |          |          |              |                   |                      |
|   | 19              | <b>20A48</b><br>16                  | Instr.                 | –                  | 80       | 280      | –            | –                 | –                    |
|   | 2               | <b>22-1</b><br>8                    | D                      | 35                 | 110      | 250      | 325          | –                 | –                    |
|   | 3               | <b>22-2</b><br>8                    | D                      | 70                 | 145      | 215      | 290          | –                 | –                    |
|   | 4<br>2<br>2     | <b>22-4</b><br>8<br>12              | A                      | 5                  | 110      | 250      | 325          | –                 | –                    |
|   | 6<br>2<br>4     | <b>22-5</b><br>12<br>16             | D                      | 35                 | 110      | 250      | 325          | –                 | –                    |
|   | 1               | <b>22-7</b><br>0                    | E                      | –                  | –        | –        | –            | –                 | –                    |

◆Attention: For all insert rotations, it is possible for miss-mating to occur. It is the responsibility of the customer to ensure they have selected correctly.

\*Reduced contact termination 0,3mm<sup>2</sup>.

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## CONTACT ARRANGEMENTS

| View on Mating face of Pin Insulator | No. of Contacts | Contact arrangement<br>Contact size | Service rating             | Insulator position |     |     |     | Position | Special polarization |
|--------------------------------------|-----------------|-------------------------------------|----------------------------|--------------------|-----|-----|-----|----------|----------------------|
|                                      |                 |                                     |                            | W                  | X   | Y   | Z   |          |                      |
|                                      | 2               | <b>22-8</b><br>12                   | E                          | 35                 | 110 | 250 | 325 | -        | -                    |
|                                      | 3               | <b>22-9</b><br>12                   | E                          | 70                 | 145 | 215 | 290 | -        | -                    |
|                                      | 4               | <b>22-10</b><br>16                  | E                          | 35                 | 110 | 250 | 325 | -        | -                    |
|                                      | 5               | <b>22-12</b><br>8<br>16             | D                          | 80                 | 110 | 250 | 280 | -        | -                    |
|                                      | 19              | <b>22-14</b><br>16                  | A                          | 80                 | -   | -   | 280 | -        | -                    |
|                                      | 6               | <b>22-15</b><br>12<br>16            | A (A, B, C, E, F)<br>E (D) | 80                 | 110 | 250 | 280 | -        | -                    |
|                                      | 9               | <b>22-16</b><br>12<br>16            | A                          | 80                 | 110 | 250 | 280 | -        | -                    |
|                                      | 14              | <b>22-19</b><br>16                  | A                          | 80                 | 110 | 250 | 280 | -        | -                    |
|                                      | 9               | <b>22-20</b><br>16                  | A                          | 35                 | 110 | 250 | 325 | -        | -                    |
|                                      | 3               | <b>22-21</b><br>16<br>0             | A                          | 80                 | 110 | 250 | 280 | -        | -                    |
|                                      | 4               | <b>22-22</b><br>8                   | A                          | -                  | 110 | 250 | -   | -        | -                    |
|                                      | 8               | <b>22-23</b><br>12                  | D (H)<br>A (all others)    | 35                 | -   | 250 | -   | -        | -                    |
|                                      | 9               | <b>22-27</b><br>8<br>16             | A (A to H)                 | 80                 | -   | 250 | 280 | -        | -                    |
|                                      | 7               | <b>22-28</b><br>12                  | A                          | 80                 | -   | -   | 280 | -        | -                    |
|                                      | 7               | <b>24-2</b><br>12                   | D                          | 80                 | -   | -   | 280 | -        | -                    |

♦Attention: For all insert rotations, it is possible for miss-mating to occur. It is the responsibility of the customer to ensure they have selected correctly.

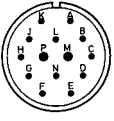
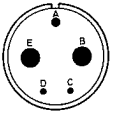
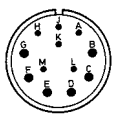
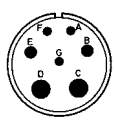
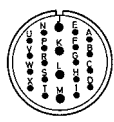
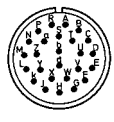
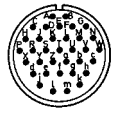

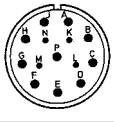
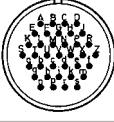
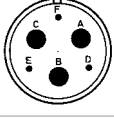
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## CONTACT ARRANGEMENTS

| View on Mating face of Pin Insulator | No. of Contacts    | Contact arrangement<br>Contact size | Service rating | Insulator position |     |     |     | Position          | Special polarization    |
|--------------------------------------|--------------------|-------------------------------------|----------------|--------------------|-----|-----|-----|-------------------|-------------------------|
|                                      |                    |                                     |                | W                  | X   | Y   | Z   |                   |                         |
|                                      | 4<br>1<br>3        | <b>24-4</b><br>0<br>16              | D              | 80                 | 110 | 250 | 280 | –                 | –                       |
|                                      | 16                 | <b>24-5</b><br>16                   | A              | 80                 | 110 | 250 | 280 | –                 | –                       |
|                                      | 16<br>2<br>14      | <b>24-7</b><br>12<br>16             | A              | 80                 | 110 | 250 | 280 | –                 | –                       |
|                                      | 2                  | <b>24-9</b><br>4                    | A              | 35                 | 110 | 250 | 325 | –                 | –                       |
|                                      | 7                  | <b>24-10</b><br>8                   | A              | 80                 | –   | –   | 280 | –                 | –                       |
|                                      | 9<br>3<br>6        | <b>24-11</b><br>8<br>12             | A              | 35                 | 110 | 250 | 325 | –                 | –                       |
|                                      | 5<br>2<br>3        | <b>24-12</b><br>4<br>12             | A              | 80                 | 110 | 250 | 280 | –                 | –                       |
|                                      | 12                 | <b>24-19</b><br>16                  | A              | –                  | –   | –   | –   | –                 | –                       |
|                                      | 11<br>2<br>9       | <b>24-20</b><br>12<br>16            | D              | 80                 | 110 | 250 | 280 | –                 | –                       |
|                                      | 4                  | <b>24-22</b><br>8                   | D              | 45                 | 110 | 250 |     | –                 | –                       |
|                                      | 7                  | <b>24-27</b><br>16                  | E              | 80                 | –   | –   | 280 | –                 | –                       |
|                                      | 24                 | <b>24-28</b><br>16                  | Instr.         | 80                 | 110 | 250 | 280 | –                 | –                       |
|                                      | 12                 | <b>24A24</b><br>12                  | A              | –                  | –   | –   | –   | 2<br>4<br>9<br>12 | 260<br>80<br>280<br>100 |
|                                      | 28                 | <b>24A28</b><br>16                  | Instr.         | 65                 | 146 | 235 | –   | –                 | –                       |
|                                      | 19<br>13<br>5<br>1 | <b>24A51</b><br>16<br>12<br>8       | A              | –                  | –   | –   | –   | 14                | 30                      |

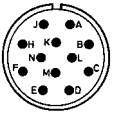
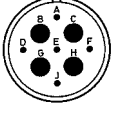
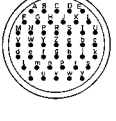
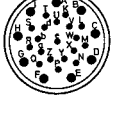
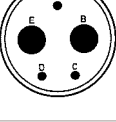
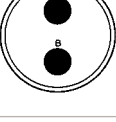
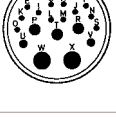
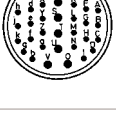
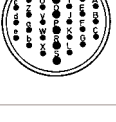
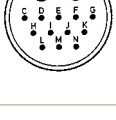
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## CONTACT ARRANGEMENTS

| View on Mating face of Pin Insulator  | No. of Contacts  | Contact arrangement<br>Contact size | Service rating                       | Insulator position |     |     |     | Position | Special polarization |
|---|------------------|-------------------------------------|--------------------------------------|--------------------|-----|-----|-----|----------|----------------------|
|   |                  |                                     |                                      | W                  | X   | Y   | Z   |          |                      |
|    | 14<br>12<br>2    | <b>28-2</b><br>16<br>12             | D                                    | 35                 | 110 | 250 | 325 | –        | –                    |
|    | 5<br>2<br>2<br>1 | <b>28-5</b><br>4<br>16<br>12        | D                                    | 35                 | 110 | 250 | 325 | –        | –                    |
|    | 12<br>6<br>6     | <b>28-9</b><br>16<br>12             | D                                    | 80                 | 110 | 250 | 280 | –        | –                    |
|    | 7<br>2<br>2<br>3 | <b>28-10</b><br>4<br>8<br>12        | A (= A, B, C,<br>D, E, F)<br>D (= G) | 80                 | 110 | 250 | 280 | –        | –                    |
|    | 22<br>4<br>18    | <b>28-11</b><br>12<br>16            | A                                    | 80                 | 110 | 250 | 280 | –        | –                    |
|   | 26               | <b>28-12</b><br>16                  | A                                    | 90                 | 180 | 270 | –   | –        | –                    |
|  | 35               | <b>28-15</b><br>16                  | A                                    | 80                 | 110 | 250 | 280 | –        | –                    |
|  | 20               | <b>28-16</b><br>16                  | A (A-L)<br>D (M, N, P)               | 80                 | 110 | 250 | 280 | –        | –                    |
|  | 14<br>10<br>4    | <b>28-20</b><br>12<br>16            | A                                    | 80                 | 110 | 250 | 280 | –        | –                    |
|  | 37               | <b>28-21</b><br>16                  | A                                    | 80                 | 110 | 250 | 280 | –        | –                    |
|  | 6<br>3<br>3      | <b>28-22</b><br>4<br>16             | D                                    | 70                 | 145 | 215 | 290 | –        | –                    |

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## CONTACT ARRANGEMENTS

| View on Mating face of Pin Insulator  | No. of Contacts         | Contact arrangement<br>Contact size | Service rating                            | Insulator position     |                         |                         |                         | Position               | Special polarization           |
|---|-------------------------|-------------------------------------|---|------------------------|-------------------------|-------------------------|-------------------------|------------------------|--------------------------------|
|   |                         |                                     |   | W                      | X                       | Y                       | Z                       |                        |                                |
|    | 12                      | <b>28-51</b><br>12                  | D   | 80                     | 135                     | 195                     | –                       | –                      | –                              |
|    | 9<br>4<br>5             | <b>28A16</b><br>4<br>16             | A (e)<br>Instr.                           | –<br>–<br>–<br>–       | –<br>–<br>–<br>–        | –<br>–<br>–<br>–        | –<br>–<br>–<br>–        | 2<br>3<br>8<br>9       | 260<br>110<br>250<br>280       |
|    | 43                      | <b>28A51</b><br>16                  | A   | –<br>–<br>–<br>–<br>–  | –<br>–<br>–<br>–<br>–   | –<br>–<br>–<br>–<br>–   | –<br>–<br>–<br>–<br>–   | 3<br>4<br>8<br>9<br>12 | 110<br>80<br>250<br>280<br>100 |
|    | 28<br>9<br>19           | <b>28A63</b><br>12<br>16            | A   | –<br>–<br>–<br>–<br>–  | 100<br>–<br>–<br>–<br>– | 260<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>–   | –<br>–<br>–<br>–<br>–  | –<br>–<br>–<br>–<br>–          |
|   | 5<br>2<br>3             | <b>32-1</b><br>0<br>12              | E (A)<br>D (all others)                   | 80<br>–<br>–<br>–<br>– | 110<br>–<br>–<br>–<br>– | 250<br>–<br>–<br>–<br>– | 280<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>–  | –<br>–<br>–<br>–<br>–          |
|  | 2                       | <b>32-5</b><br>0                    | D   | 35<br>–<br>–<br>–<br>– | 110<br>–<br>–<br>–<br>– | 250<br>–<br>–<br>–<br>– | 325<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>–  | –<br>–<br>–<br>–<br>–          |
|  | 23<br>2<br>3<br>2<br>16 | <b>32-6</b><br>4<br>8<br>12<br>16   | A   | 80<br>–<br>–<br>–<br>– | 110<br>–<br>–<br>–<br>– | 250<br>–<br>–<br>–<br>– | 280<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>–  | –<br>–<br>–<br>–<br>–          |
|  | 35<br>7<br>28           | <b>32-7</b><br>12<br>16             | Instr.<br>(A, B, U, I.)<br>A (all others) | 80<br>–<br>–<br>–<br>– | 125<br>–<br>–<br>–<br>– | 235<br>–<br>–<br>–<br>– | 280<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>–  | –<br>–<br>–<br>–<br>–          |
|  | 30<br>6<br>24           | <b>32-8</b><br>12<br>16             | A   | 80<br>–<br>–<br>–<br>– | 125<br>–<br>–<br>–<br>– | 235<br>–<br>–<br>–<br>– | 280<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>–  | –<br>–<br>–<br>–<br>–          |
|  | 14<br>12<br>2           | <b>32-9</b><br>16<br>4              | D   | 80<br>–<br>–<br>–<br>– | 110<br>–<br>–<br>–<br>– | 250<br>–<br>–<br>–<br>– | 280<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>–  | –<br>–<br>–<br>–<br>–          |

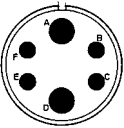
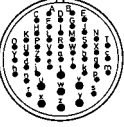

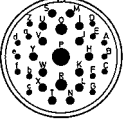
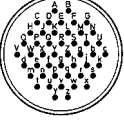
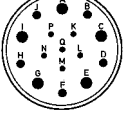
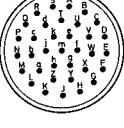
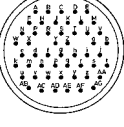
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## CONTACT ARRANGEMENTS

| View on Mating<br>face of Pin Insulator               | No. of<br>Contacts | Contact arrangement<br>Contact size | Service rating | Insulator position         |                            |                            |                            | Position                    | Special<br>polarization               |
|---|--------------------|-------------------------------------|----------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|---------------------------------------|
|   |                    |                                     |                | W                          | X                          | Y                          | Z                          |                             |                                       |
|   | 23<br>5<br>18      | <b>32-13</b><br>12<br>16            | D              | 80                         | 110                        | 250                        | 280                        | -                           | -                                     |
|   | 8<br>2<br>6        | <b>32-15</b><br>0<br>12             | D              | 35                         | 110                        | 250                        | 325                        | -                           | -                                     |
|   | 4                  | <b>32-17</b><br>4                   | D              | 45                         | 110                        | 250                        | -                          | -                           | -                                     |
|   | 54                 | <b>32A10</b><br>16                  | A              | -<br>80<br>-<br>-<br>-     | -<br>110<br>-<br>-<br>-    | -<br>250<br>-<br>-<br>-    | -<br>280<br>-<br>-<br>-    | 3<br>4<br>8<br>9<br>12      | 110<br>80<br>250<br>280<br>100        |
|   | 47                 | <b>32A47</b><br>16                  | -<br>A         | -<br>-<br>-<br>-<br>-<br>- | -<br>-<br>-<br>-<br>-<br>- | -<br>-<br>-<br>-<br>-<br>- | -<br>-<br>-<br>-<br>-<br>- | 2<br>3<br>4<br>8<br>9<br>12 | 260<br>110<br>80<br>250<br>280<br>100 |
|   | 55                 | <b>32A55</b><br>16                  | A              | 80                         | 110                        | 250                        | 280                        | -                           | -                                     |
|   | 61<br>20<br>41     | <b>32A69</b><br>16<br>20            | Instr.         | -                          | 110                        | 250                        | -                          | -                           | -                                     |
| No solder pot contacts available for #10/20 contacts. |                    |                                     |                |                            |                            |                            |                            |                             |                                       |
|   | 6<br>3<br>3        | <b>36-3</b><br>0<br>12              | D              | 70                         | 145                        | 215                        | 290                        | -                           | -                                     |
|   | 4                  | <b>36-5</b><br>0                    | A              | -                          | 120                        | 240                        | -                          | -                           | -                                     |

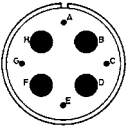
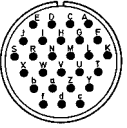

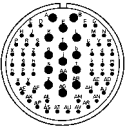
This document solely applies to European manufactured CA Threaded products  
Dimensions shown in mm | Specifications and dimensions subject to change

## CONTACT ARRANGEMENTS

| View on Mating face of Pin Insulator  | No. of Contacts          | Contact arrangement<br>Contact size | Service rating          | Insulator position |     |     |     | Position                          | Special polarization                         |
|---|--------------------------|-------------------------------------|-------------------------|--------------------|-----|-----|-----|-----------------------------------|--|
|   |                          |                                     |                         | W                  | X   | Y   | Z   |                                   |  |
|    | 6<br>4<br>2              | <b>36-6</b><br>4<br>0               | A                       | 35                 | 110 | 250 | 25  | –                                 | –  |
|    | 47<br>7<br>40            | <b>36-7</b><br>12<br>16             | A                       | 80                 | 110 | 250 | 280 | –                                 | –  |
|    | 47<br>1<br>46            | <b>36-8</b><br>12<br>16             | A                       | 80                 | 110 | 250 | 280 | –                                 | –  |
|   | 31<br>14<br>14<br>2<br>1 | <b>36-9</b><br>16<br>12<br>8<br>4   | A                       | 80                 | 125 | 235 | 280 | –                                 | –  |
|  | 48                       | <b>36-10</b><br>16                  | A                       | 80                 | 125 | 235 | 280 | –                                 | –  |
|  | 16<br>5<br>5<br>6        | <b>36-14</b><br>8<br>12<br>16       | D                       | –                  | –   | –   | –   | –                                 | –  |
|  | 35                       | <b>36-15</b><br>16                  | D (m)<br>A (all others) | 60                 | 125 | 245 | 305 | –                                 | –  |
|  | 52                       | <b>36A34</b><br>16                  | A                       | –                  | –   | –   | –   | 2<br>3<br>4<br>8<br>9<br>12<br>20 | 260<br>110<br>80<br>250<br>280<br>100<br>220 |

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## CONTACT ARRANGEMENTS

| View on Mating face of Pin Insulator   | No. of Contacts | Contact arrangement<br>Contact size | Service rating | Insulator position |     |   |   | Position                    | Special polarization                  |
|--|-----------------|-------------------------------------|----------------|--------------------|-----|---|---|-----------------------------|---------------------------------------|
|  |                 |                                     |                | W                  | X   | Y | Z |                             |                                       |
|   | 8<br>4<br>4     | <b>36A35</b><br>16<br>0             | A              | -                  | -   | - | - | 2<br>3<br>8<br>9            | 260<br>110<br>250<br>280              |
|   | 27              | <b>36A46</b><br>12                  | A              | -                  | -   | - | - | 2<br>3<br>4<br>8<br>9<br>12 | 260<br>110<br>80<br>250<br>280<br>100 |
|   | 39<br>8<br>31   | <b>36A98</b><br>8<br>16             | A              | -                  | 110 | - | - | -                           | -                                     |
|  | 65<br>15<br>50  | <b>36A99</b><br>16<br>20*           | Instr.         | 30                 | 135 | - | - | -                           | -                                     |
| No solder pot contacts available for #10/20 contacts.                              |                 |                                     |                |                    |     |   |   |                             |                                       |

\*Reduced contact termination 0,3 mm<sup>2</sup>.

◆ Attention: For all insert rotations, it is possible for miss-mating to occur. It is the responsibility of the customer to ensure they have selected correctly.

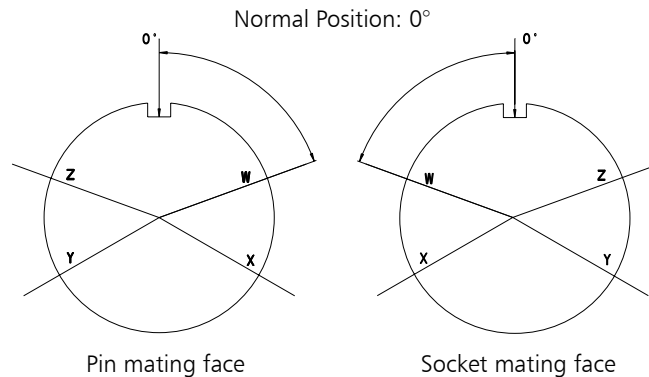
## ALTERNATE INSERT POSITION

Indicates location of centerline of key or keyway of shells in fixed normal position. Insert is rotated as shown by arrow and letters.

Tolerances:

Pin insulator 10SL-20:  $\pm 2,0^\circ$

Pin insulator 22-36:  $\pm 1,5^\circ$



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## CONTACT ARRANGEMENTS

| Contact arrangement | No. of Contacts | Contact size |     |     |    |    |    |
|---------------------|-----------------|--------------|-----|-----|----|----|----|
|                     |                 | 0            | 4   | 8   | 12 | 16 | 20 |
|                     |                 | 500          | 160 | 100 | 25 | 15 | 10 |
| 12S4                | 1               |              |     |     |    | 1  |    |
| 14S4                | 1               |              |     |     |    | 1  |    |
| 16-12               | 1               |              | 1   |     |    |    |    |
| 18-6                | 1               |              | 1   |     |    |    |    |
| 18-7                | 1               |              |     | 1   |    |    |    |
| 20-2                | 1               | 1            |     |     |    |    |    |
| 22-7                | 1               | 1            |     |     |    |    |    |
| 10SL4               | 2               |              |     |     |    | 2  |    |
| 14S9                | 2               |              |     |     |    | 2  |    |
| 16S4                | 2               |              |     |     |    | 2  |    |
| 16-11               | 2               |              |     |     | 2  |    |    |
| 16A11               | 2               |              |     |     | 2  |    |    |
| 18-3                | 2               |              |     |     | 2  |    |    |
| 20-23               | 2               |              |     | 2   |    |    |    |
| 22-1                | 2               |              |     | 2   |    |    |    |
| 22-8                | 2               |              |     |     | 2  |    |    |
| 24-9                | 2               |              | 2   |     |    |    |    |
| 32-5                | 2               | 2            |     |     |    |    |    |
| 10SL3               | 3               |              |     |     |    | 3  |    |
| 14S1                | 3               |              |     |     |    | 3  |    |
| 14S7                | 3               |              |     |     |    | 3  |    |
| 16S5                | 3               |              |     |     |    | 3  |    |
| 16-7                | 3               |              |     | 1   |    | 2  |    |
| 16-10               | 3               |              |     |     | 3  |    |    |
| 18-5                | 3               |              |     |     | 2  | 1  |    |
| 18-21               | 3               |              |     |     | 3  |    |    |
| 18-22               | 3               |              |     |     |    | 3  |    |
| 20-3                | 3               |              |     |     | 3  |    |    |
| 20-6                | 3               |              |     |     |    | 3  |    |
| 20-19               | 3               |              |     |     | 3  |    |    |
| 22-2                | 3               |              |     | 3   |    |    |    |
| 22-9                | 3               |              |     |     | 3  |    |    |
| 22-21               | 3               | 1            |     |     |    | 2  |    |
| 12SA10              | 4               |              |     |     |    | 4  |    |
| 14S2                | 4               |              |     |     |    | 4  |    |
| 16-9                | 4               |              |     |     | 2  | 2  |    |
| 18-4                | 4               |              |     |     |    | 4  |    |
| 18-10               | 4               |              |     |     | 4  |    |    |
| 18-13               | 4               |              |     | 1   | 3  |    |    |
| 20-4                | 4               |              |     |     | 4  |    |    |
| 20-24               | 4               |              |     | 2   |    | 2  |    |
| 22-4                | 4               |              |     | 2   | 2  |    |    |
| 22-10               | 4               |              |     |     |    | 4  |    |
| 22-22               | 4               |              |     | 4   |    |    |    |
| 24-4                | 4               | 1            |     |     |    | 3  |    |
| 24-22               | 4               |              |     | 4   |    |    |    |
| 32-17               | 4               |              | 4   |     |    |    |    |
| 36-5                | 4               | 4            |     |     |    |    |    |

| Contact arrangement | No. of Contacts | Contact size |     |     |    |    |    |
|---------------------|-----------------|--------------|-----|-----|----|----|----|
|                     |                 | 0            | 4   | 8   | 12 | 16 | 20 |
|                     |                 | 500          | 160 | 100 | 25 | 15 | 10 |
| 14S5                | 5               |              |     |     |    | 5  |    |
| 16S8                | 5               |              |     |     |    | 5  |    |
| 18-11               | 5               |              |     |     | 5  |    |    |
| 18-20               | 5               |              |     |     |    | 5  |    |
| 20-14               | 5               |              |     | 2   | 3  |    |    |
| 22-12               | 5               |              |     |     | 2  | 3  |    |
| 24-12               | 5               |              | 2   |     | 3  |    |    |
| 28-5                | 5               |              | 2   |     | 1  | 2  |    |
| 32-1                | 5               | 2            |     |     | 3  |    |    |
| 14S6                | 6               |              |     |     |    | 6  |    |
| 18-12               | 6               |              |     |     |    | 6  |    |
| 20-8                | 6               |              |     | 2   |    | 4  |    |
| 20-17               | 6               |              |     |     | 5  | 1  |    |
| 20-22               | 6               |              |     | 3   |    | 3  |    |
| 22-5                | 6               |              |     |     | 2  | 4  |    |
| 22-15               | 6               |              |     |     | 5  | 1  |    |
| 28-22               | 6               |              | 3   |     |    | 3  |    |
| 36-3                | 6               | 3            |     |     | 3  |    |    |
| 36-6                | 6               | 2            | 4   |     |    |    |    |
| 14SA7               | 7               |              |     |     |    | 7  |    |
| 16S1                | 7               |              |     |     |    | 7  |    |
| 18-9                | 7               |              |     |     | 2  | 5  |    |
| 18-17               | 7               |              |     |     | 2  | 5  |    |
| 20-15               | 7               |              |     |     | 7  |    |    |
| 22-28               | 7               |              |     |     | 7  |    |    |
| 24-2                | 7               |              |     |     | 7  |    |    |
| 24-10               | 7               |              |     | 7   |    |    |    |
| 24-27               | 7               |              |     |     |    | 7  |    |
| 28-10               | 7               |              | 2   | 2   | 3  |    |    |
| 18-8                | 8               |              |     |     | 1  | 7  |    |
| 20-7                | 8               |              |     |     |    | 8  |    |
| 22-23               | 8               |              |     |     | 8  |    |    |
| 32-15               | 8               | 2            |     |     | 6  |    |    |
| 36A35               | 8               | 4            |     |     |    | 4  |    |
| 24-6                | 8               |              |     |     | 8  |    |    |
| 20-16               | 9               |              |     |     | 2  | 7  |    |
| 20-18               | 9               |              |     |     | 3  | 6  |    |
| 20A9                | 9               |              |     |     | 9  |    |    |
| 22-16               | 9               |              |     |     | 3  | 6  |    |
| 22-20               | 9               |              |     |     |    | 9  |    |
| 22-27               | 9               |              |     | 1   |    | 8  |    |
| 24-11               | 9               |              |     | 3   | 6  |    |    |
| 28A16               | 9               |              | 4   |     |    | 5  |    |
| 18-1                | 10              |              |     |     |    | 10 |    |
| 18-19               | 10              |              |     |     |    | 10 |    |

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| Contact arrangement | No. of Contacts | Contact size |     |     |    |    |    |
|---------------------|-----------------|--------------|-----|-----|----|----|----|
|                     |                 | 0            | 4   | 8   | 12 | 16 | 20 |
|                     |                 | 500          | 160 | 100 | 25 | 15 | 10 |
| 20-33               | 11              |              |     |     |    | 11 |    |
| 24-20               | 11              |              |     |     | 2  | 9  |    |
| 24-19               | 12              |              |     |     |    | 12 |    |
| 24A24               | 12              |              |     |     | 12 |    |    |
| 28-9                | 12              |              |     |     | 6  | 6  |    |
| 28-51               | 12              |              |     |     | 12 |    |    |
| 20-11               | 13              |              |     |     |    | 13 |    |
| 20-27               | 14              |              |     |     |    | 14 |    |
| 22-19               | 14              |              |     |     |    | 14 |    |
| 28-2                | 14              |              |     |     | 2  | 12 |    |
| 28-20               | 14              |              |     |     | 10 | 4  |    |
| 32-9                | 14              |              | 2   |     |    | 12 |    |
| 24-5                | 16              |              |     |     |    | 16 |    |
| 24-7                | 16              |              |     |     | 2  | 14 |    |
| 36-14               | 16              |              |     | 5   | 5  | 6  |    |
| 20-29               | 17              |              |     |     |    | 17 |    |
| 20A48               | 19              |              |     |     |    | 19 |    |
| 22-14               | 19              |              |     |     |    | 19 |    |
| 28-16               | 20              |              |     |     |    | 20 |    |
| 28-11               | 22              |              |     |     | 4  | 18 |    |
| 32-6                | 23              |              | 2   | 3   | 2  | 16 |    |
| 32-13               | 23              |              |     |     | 5  | 18 |    |
| 24-28               | 24              |              |     |     |    | 24 |    |
| 20A24               | 24              |              |     |     |    |    | 24 |
| 28-12               | 26              |              |     |     |    | 26 |    |
| 36A46               | 27              |              |     |     | 27 |    |    |
| 24A28               | 28              |              |     |     |    | 28 |    |
| 28A63               | 28              |              |     |     | 9  | 19 |    |
| 32-8                | 30              |              |     |     | 6  | 24 |    |
| 36-9                | 31              |              | 1   | 2   | 14 | 14 |    |
| 28-15               | 35              |              |     |     |    | 35 |    |
| 32-7                | 35              |              |     |     | 7  | 28 |    |
| 36-15               | 35              |              |     |     |    | 35 |    |
| 28-21               | 37              |              |     |     |    | 37 |    |
| 36A98               | 39              |              |     | 8   |    | 31 |    |
| 28A51               | 43              |              |     |     |    | 43 |    |

| Contact arrangement | No. of Contacts | Contact size |     |     |    |    |    |
|---------------------|-----------------|--------------|-----|-----|----|----|----|
|                     |                 | 0            | 4   | 8   | 12 | 16 | 20 |
|                     |                 | 500          | 160 | 100 | 25 | 15 | 10 |
| 28A51               | 43              |              |     |     |    | 43 |    |
| 32A47               | 47              |              |     |     |    | 47 |    |
| 36-7                | 47              |              |     |     | 7  | 40 |    |
| 36-8                | 47              |              |     |     | 1  | 46 |    |
| 36-10               | 48              |              |     |     |    | 48 |    |
| 36A34               | 52              |              |     |     |    | 52 |    |
| 32A10               | 54              |              |     |     |    | 54 |    |
| 32A55               | 55              |              |     |     |    | 55 |    |
| 32A69               | 61              |              |     |     |    | 20 | 41 |
| 36A99               | 65              |              |     |     |    | 15 | 50 |

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## MOUNTING HOLES

| Shell size | CA Threaded        |                    |        |      | Mounting holes for connectors styles, complete receptacle range |
|------------|--------------------|--------------------|--------|------|---|
|            | d1 H12             |                    | d2 H13 | e    |   |
|            | CA3100..., CA20... | CA3102..., CA02... |        |      |   |
| 10SL       | 16,0               | 16,4               | 3,4    | 18,2 |   |
| 12S        | 19,1               | 16,4               | 3,4    | 20,6 |   |
| 14S        | 22,3               | 19,7               | 3,4    | 23,0 |   |
| 16S/16     | 25,5               | 22,9               | 3,4    | 24,6 |   |
| 18         | 28,7               | 26,1               | 3,4    | 27,0 |   |
| 20         | 31,8               | 29,5               | 3,4    | 29,4 |   |
| 22         | 35,0               | 32,7               | 3,4    | 31,8 |   |
| 24         | 38,2               | 36,0               | 3,9    | 34,9 |   |
| 28         | 44,5               | 42,0               | 3,9    | 39,7 |   |
| 32         | 50,9               | 48,3               | 4,5    | 44,5 |   |
| 36         | 57,2               | 53,1               | 4,5    | 49,2 |   |

## HARNESSING

CA Threaded connectors are designed for single wire harnessing, if an individual wire sealing grommet is used. Wires have to conform to wire and insulation diameters with the data given in the following table:

| Contact size |           | Crimp/solder contacts |                        | Insulation Ø |           |
|--------------|-----------|-----------------------|------------------------|--------------|-----------|
| AWG          | metric mm | AWG                   | metric mm <sup>2</sup> | AWG          | metric mm |
| –            | 10        | –                     | 0,75-1,0               | –            | 1,45-2,5  |
| 16S/15S      | 16/15     | 16                    | 0,75-1,5               | 1,6-2,8      | 1,60-2,8  |
| 12           | 25        | 12                    | 2,5                    | 2,9-3,5      | 2,9-3,5   |
| –            | 60        | –                     | 6,0                    | –            | 3,5-4,9   |
| 8            | 100       | 8                     | 10,0                   | 4,2-5,8      | 5,5-6,5   |
| 4            | 160       | 4                     | 16,0                   | 6,2-9,0      | 7,1-9,0   |
| 0            | 500       | 0                     | 50,0                   | 10,5-13,0    | 10,5-13,0 |

## WIRE STRIPPING

Either mechanical or hot stripping can be used. Prevent conductors or insulators damage. For solder contacts, conductors have to be pretinned.

**Note:** Do not twist conductors used with crimp contacts. Do not touch uninsulated conductors before crimping, twisting of conductors and grease or lubricants on the wires cause poor crimp quality.

| Contact size |        | Stripping length mm |
|--------------|--------|---------------------|
| AWG          | metric |                     |
| –            | 10     | 4,0 + 0,4           |
| 16S/15S      | 16/15  | 6,0 + 0,5           |
| 12           | 25     | 6,0 + 0,5           |
| 8            | 60/100 | 11,0 + 0,8 – 0,4    |
| 4            | 160    | 11,0 + 0,8 – 0,4    |
| 0            | 500    | 13,0 + 0,8 – 0,4    |

## WIRING HINTS

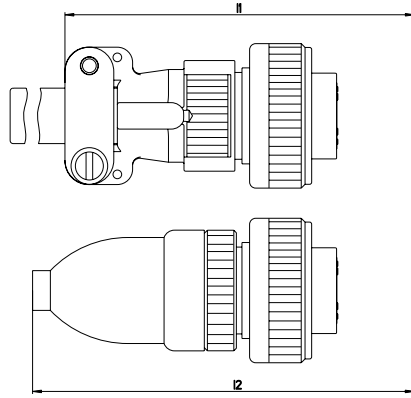
Strip wires carefully. Do not damage conductors and insulation. For solder connections, wires have to be pretinned. Do not twist conductors used in crimp contacts, otherwise no perfect crimp connection will be achieved. Do not touch conductors before crimping. Film of grease or lubricants on the strands will cause poor crimp quality.

For detailed assembly instructions please visit [www.ittcannon.com](http://www.ittcannon.com) and search for the keyword "CA Bayonet Assembly Instruction".

## SEPARATING AND COUPLING DIMENSIONS

### PLUG

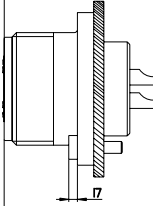
CA3106E



CA3106E-DN

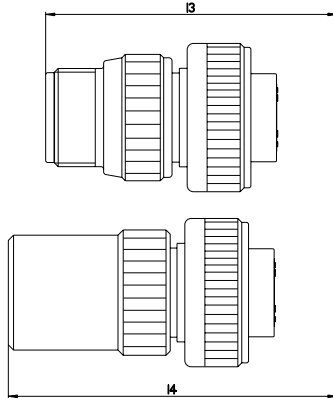
### RECEPTACLE

CA3102E



### PLUG

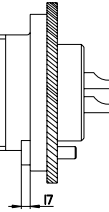
CA3106F



CA06PG/ME

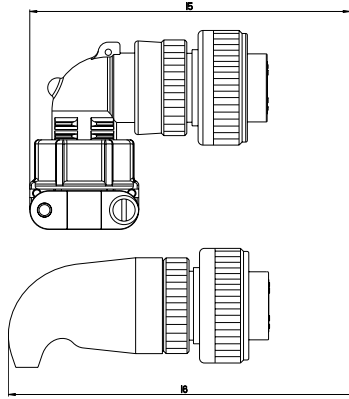
### RECEPTACLE

CA3102E



### PLUG

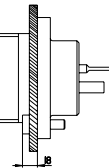
CA3108E



CA3106E-DN

### RECEPTACLE

CA3102E



CA20L  
CA20E

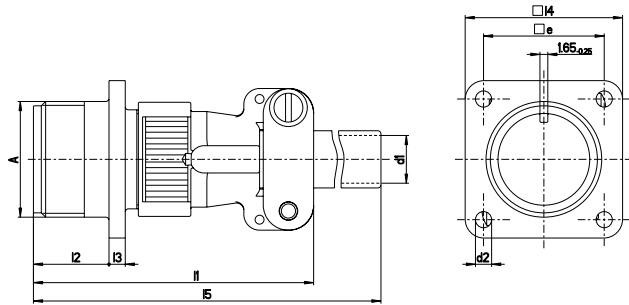
| Shell size | I1<br>min. | I2<br>min. | I3<br>min. | I4<br>min. | I5<br>min. | I6<br>min. | I7<br>max. | I8<br>max. |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 10SL       | 70         | 70         | 65         | 80         | 70         | 65         | 3,5        | 8,0        |
| 12S        | 70         | 75         | 65         | 80         | 75         | 70         | 3,5        | 8,0        |
| 14S        | 70         | 75         | 65         | 80         | 75         | 80         | 3,5        | 8,0        |
| 16S        | 70         | 90         | 65         | 80         | 80         | 80         | 3,5        | 8,0        |
| 16         | 80         | 100        | 70         | 100        | 90         | 100        | 3,5        | 8,0        |
| 18         | 90         | 100        | 70         | 110        | 95         | 110        | 3,5        | 8,0        |
| 20         | 90         | 100        | 70         | 110        | 95         | 110        | 3,5        | 8,0        |
| 22         | 90         | 100        | 70         | 110        | 95         | 110        | 3,5        | 8,0        |
| 24         | 110        | 120        | 90         | 120        | 105        | 120        | 5,0        | 8,0        |
| 28         | 110        | 120        | 90         | 120        | 105        | 120        | 5,0        | 9,0        |
| 32         | 110        | 180        | 90         | 120        | 115        | 120        | 6,0        | 9,0        |
| 36         | 110        | 190        | 100        | 130        | 120        | 130        | 6,0        | 9,0        |

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## WALL MOUNTING RECEPTACLE CLASS F, E

## CA3100E

CA3100E designates a wall mounting receptacle. It mates with plugs CA3106 and CA3108. If crimp version is required please order CA3100E...F80 or CA3100E...F183.

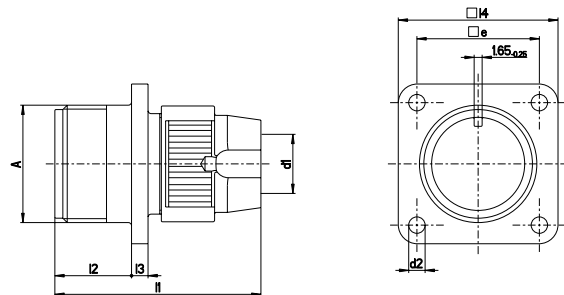


| Part No. CA (pin insert*) | A Thread        | I1 max. | I2 ±0,3 | I3 max. | I4 +0,2/-0,1 | I5 max. | d1 <sup>1</sup> | d2 +0,2 | e ±0,3 |
|---------------------------|-----------------|---------|---------|---------|--------------|---------|-----------------|---------|--------|
| CA3100E10SL-**p***        | 5/8-24UNEF-2A   | 53      | 14,2    | 2,8     | 25,4         | 120     | 6,5             | 3,1     | 18,2   |
| CA3100E12S-**p***         | 3/4-20UNEF-2A   | 53      | 14,2    | 3,2     | 28,0         | 120     | 6,5             | 3,1     | 20,6   |
| CA3100E14S-**p***         | 7/8-20UNEF-2A   | 55      | 14,2    | 3,2     | 30,0         | 120     | 9,0             | 3,1     | 23,0   |
| CA3100E16S-**p***         | 1-20UNEF-2A     | 56      | 14,2    | 3,2     | 32,5         | 125     | 11,0            | 3,1     | 24,6   |
| CA3100E16-**p***          | 1-20UNEF-2A     | 66      | 19,0    | 3,2     | 32,5         | 125     | 11,0            | 3,1     | 24,6   |
| CA3100E18-**p***          | 1-1/8-18UNEF-2A | 68      | 19,0    | 4,0     | 35,0         | 125     | 14,2            | 3,1     | 27,0   |
| CA3100E20-**p***          | 1-1/4-18UNEF-2A | 68      | 19,0    | 4,0     | 38,0         | 125     | 15,8            | 3,1     | 29,4   |
| CA3100E22-**p***          | 1-3/8-18UNEF-2A | 68      | 19,0    | 4,0     | 41,0         | 125     | 15,8            | 3,1     | 31,8   |
| CA3100E24-**p***          | 1-1/2-18UNEF-2A | 76      | 20,6    | 4,0     | 44,5         | 125     | 21,4            | 3,7     | 34,9   |
| CA3100E28-**p***          | 1-3/4-18UNS-2A  | 76      | 20,6    | 4,0     | 50,8         | 125     | 21,4            | 3,7     | 39,7   |
| CA3100E32-**p***          | 2-18UNS-2A      | 76      | 22,2    | 4,0     | 57,0         | 125     | 26,7            | 4,4     | 44,5   |
| CA3100E36-**p***          | 2-1/4-16UN-2A   | 76      | 22,2    | 4,0     | 63,5         | 135     | 31,7            | 4,4     | 49,2   |

<sup>1</sup> max. cable dia

## CA3100R

CA3100R designates a receptacle with a shorter and lightweight backshell. It mates with plugs CA3106 and CA3108. If crimp version is required please order CA3100R...F80 or CA3100R...F183.



| Part No. CA (pin insert*) | A Thread        | I1 max. | I2 ±0,3 | I3 max. | I4 ±0,2 | d1 <sup>1</sup> | d2 ±0,2 | e ±0,3 |
|---------------------------|-----------------|---------|---------|---------|---------|-----------------|---------|--------|
| CA3100R10SL-**p***        | 5/8-24UNEF-2A   | 53      | 14,2    | 2,8     | 25,4    | 9,6             | 3,1     | 18,2   |
| CA3100R12S-**p***         | 3/4-20UNEF-2A   | 53      | 14,2    | 3,2     | 28,0    | 10,3            | 3,1     | 20,6   |
| CA3100R14S-**p***         | 7/8-20UNEF-2A   | 55      | 14,2    | 3,2     | 30,0    | 12,4            | 3,1     | 23,0   |
| CA3100R16S-**p***         | 1-20UNEF-2A     | 56      | 14,2    | 3,2     | 32,5    | 15,4            | 3,1     | 24,6   |
| CA3100R16-**p***          | 1-20UNEF-2A     | 66      | 19,0    | 3,2     | 32,5    | 15,4            | 3,1     | 24,6   |
| CA3100R18-**p***          | 1-1/8-18UNEF-2A | 68      | 19,0    | 4,0     | 35,0    | 18,4            | 3,1     | 27,0   |
| CA3100R20-**p***          | 1-1/4-18UNEF-2A | 68      | 19,0    | 4,0     | 38,0    | 22,0            | 3,1     | 29,4   |
| CA3100R22-**p***          | 1-3/8-18UNEF-2A | 68      | 19,0    | 4,0     | 41,0    | 24,7            | 3,1     | 31,8   |
| CA3100R24-**p***          | 1-1/2-18UNEF-2A | 76      | 20,6    | 4,0     | 44,5    | 27,6            | 3,7     | 34,9   |
| CA3100R28-**p***          | 1-3/4-18UNS-2A  | 76      | 20,6    | 4,0     | 50,8    | 31,6            | 3,7     | 39,7   |
| CA3100R32-**p***          | 2-18UNS-2A      | 76      | 22,2    | 4,0     | 57,0    | 38,5            | 4,4     | 44,5   |
| CA3100R36-**p***          | 2-1/4-16UN-2A   | 76      | 22,2    | 4,0     | 63,5    | 44,5            | 4,4     | 49,2   |

\*For socket inserts substitute "P" with "S" \*\*Add contact arrangement number; see pages 9-21 \*\*\* Add modification code; see page 8

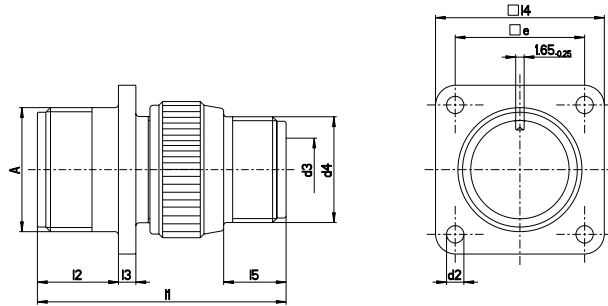
<sup>1</sup> max. cable dia

This document solely applies to European manufactured CA Threaded products  
Dimensions shown in mm | Specifications and dimensions subject to change

## WALL MOUNTING RECEPTACLE CLASS F, DN

### CA3100F

CA3100F designates a wall mounting receptacle with backshell for flex tubes or to be combined with a cable clamp. It mates with plugs CA3106 and CA3108.

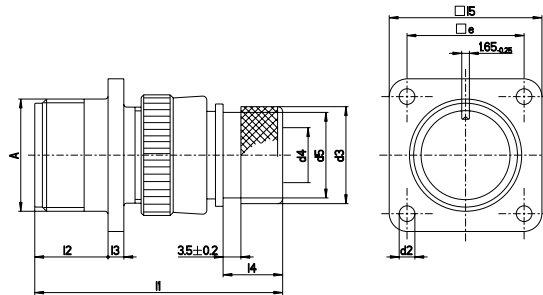


| Part No. CA (pin insert*) | A Thread        | d2<br>+0,2/-0,1 | d3 <sup>1</sup> | d4 Thread        | l1<br>max. | l2<br>+0,4 | l3<br>±0,3 | l4<br>±0,3 | l5<br>min. | e<br>±0,1 |
|---------------------------|-----------------|-----------------|-----------------|------------------|------------|------------|------------|------------|------------|-----------|
| CA3100F10SL-**P-***       | 5/8-24UNEF-2A   | 3,1             | 8,2             | 5/8-24UNEF-2A    | 45,0       | 14,2       | 2,8        | 25,4       | 9,5        | 18,2      |
| CA3100F12S-**P-***        | 3/4-20UNEF-2A   | 3,1             | 8,2             | 5/8-20UNEF-2A    | 45,0       | 14,2       | 3,2        | 28,0       | 9,5        | 20,6      |
| CA3100F14S-**P-***        | 7/8-20UNEF-2A   | 3,1             | 11,1            | 3/4-20UNEF-2A    | 45,0       | 14,2       | 3,2        | 30,0       | 9,5        | 23,0      |
| CA3100F16S-**P-***        | 1-20UNEF-2A     | 3,1             | 14,3            | 7/8-20UNEF-2A    | 45,0       | 14,2       | 3,2        | 32,5       | 9,5        | 24,6      |
| CA3100F16-**P-***         | 1-20UNEF-2A     | 3,1             | 14,3            | 7/8-20UNEF-2A    | 54,0       | 19,0       | 3,2        | 32,5       | 9,5        | 24,6      |
| CA3100F18-**P-***         | 1-1/8-18UNEF-2A | 3,1             | 16,7            | 1-20UNEF-2A      | 54,0       | 19,0       | 4,0        | 35,0       | 9,5        | 27,0      |
| CA3100F20-**P-***         | 1-1/4-18UNEF-2A | 3,1             | 19,8            | 1-3/16-18UNEF-2A | 55,0       | 19,0       | 4,0        | 38,0       | 9,5        | 29,4      |
| CA3100F22-**P-***         | 1-3/8-18UNEF-2A | 3,1             | 19,8            | 1-3/16-18UNEF-2A | 58,0       | 19,0       | 4,0        | 41,0       | 9,5        | 31,8      |
| CA3100F24-**P-***         | 1-1/2-18UNEF-2A | 3,7             | 25,4            | 1-7/16-18UNEF-2A | 59,0       | 20,6       | 4,0        | 44,5       | 9,5        | 34,9      |
| CA3100F28-**P-***         | 1-3/4-18UNS-2A  | 3,7             | 27,0            | 1-7/16-18UNEF-2A | 60,0       | 20,6       | 4,0        | 50,8       | 9,5        | 39,7      |
| CA3100F32-**P-***         | 2-18UNS-2A      | 4,4             | 32,5            | 1-3/4-18UNS-2A   | 62,0       | 22,2       | 4,0        | 57,0       | 11,0       | 44,5      |
| CA3100F36-**P-***         | 2-1/4-16UN-2A   | 4,4             | 35,7            | 2-18UNS-2A       | 64,0       | 22,2       | 4,0        | 63,5       | 11,8       | 49,2      |

<sup>1</sup> max. cable dia

### CA3100E-DN

CA3100E-DN designates a wall mounting receptacle with backshell for heat-shrinkable boots. It mates with plugs CA3106 and CA3108.



| Part No. CA (pin insert*) | A Thread        | d2<br>+0,2/-0,1 | d3<br>±0,2 | d4 <sup>1</sup> | d5<br>max. | l1<br>max. | l2<br>+0,4 | l3<br>±0,3 | l4<br>±0,5 | l5<br>±0,3 | e<br>±0,1 |
|---------------------------|-----------------|-----------------|------------|-----------------|------------|------------|------------|------------|------------|------------|-----------|
| CA3100E10SL-**P-DN        | 5/8-24UNEF-2A   | 3,1             | 15,5       | 7,7             | 13,3       | 49,0       | 14,2       | 2,8        | 11,7       | 25,4       | 18,2      |
| CA3100E12S-**P-DN         | 3/4-20UNEF-2A   | 3,1             | 15,5       | 7,9             | 13,3       | 49,0       | 14,2       | 3,2        | 11,7       | 28,0       | 20,6      |
| CA3100E14S-**P-DN         | 7/8-20UNEF-2A   | 3,1             | 19,1       | 10,6            | 17,0       | 49,0       | 14,2       | 3,2        | 11,7       | 30,0       | 23,0      |
| CA3100E16S-**P-DN         | 1-20UNEF-2A     | 3,1             | 23,9       | 13,5            | 21,9       | 49,0       | 14,2       | 3,2        | 11,7       | 32,5       | 24,6      |
| CA3100E16-**P-DN          | 1-20UNEF-2A     | 3,1             | 23,9       | 13,5            | 21,9       | 58,0       | 19,0       | 3,2        | 11,5       | 32,5       | 24,6      |
| CA3100E18-**P-DN          | 1-1/8-18UNEF-2A | 3,1             | 23,9       | 14,6            | 21,9       | 58,0       | 19,0       | 4,0        | 11,5       | 35,0       | 27,0      |
| CA3100E20-**P-DN          | 1-1/4-18UNEF-2A | 3,1             | 29,6       | 18,7            | 26,2       | 60,0       | 19,0       | 4,0        | 12,7       | 35,0       | 27,0      |
| CA3100E22-**P-DN          | 1-3/8-18UNEF-2A | 3,1             | 29,6       | 20,8            | 26,2       | 60,0       | 19,0       | 4,0        | 12,7       | 41,0       | 31,8      |
| CA3100E24-**P-DN          | 1-1/2-18UNEF-2A | 3,7             | 37,8       | 24,6            | 34,5       | 63,0       | 20,6       | 4,0        | 12,7       | 44,5       | 34,9      |
| CA3100E28-**P-DN          | 1-3/4-18UNS-2A  | 3,7             | 37,8       | 27,0            | 34,5       | 63,0       | 20,6       | 4,0        | 12,7       | 50,8       | 39,7      |
| CA3100E32-**P-DN          | 2-18UNS-2A      | 4,4             | 47,8       | 33,3            | 43,6       | 67,0       | 22,2       | 4,0        | 15,2       | 57,0       | 44,5      |
| CA3100E36-**P-DN          | 2-1/4-16UN-2A   | 4,4             | 47,8       | 38,5            | 43,6       | 68,0       | 22,2       | 4,0        | 15,2       | 63,5       | 49,2      |

\*For socket inserts substitute "P" with "S" \*\*Add contact arrangement number; see pages 10-22 \*\*\* Add modification code; see page 8

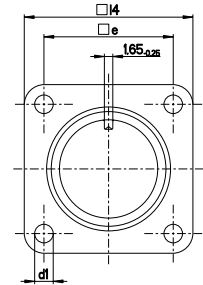
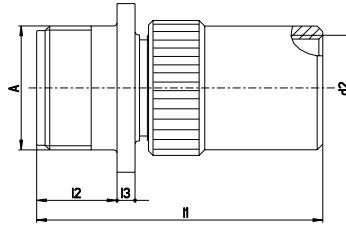
<sup>1</sup> max. cable dia

This document solely applies to European manufactured CA Threaded products  
Dimensions shown in mm | Specifications and dimensions subject to change

**WALL MOUNTING RECEPTACLE CLASS PG/ME, SHIELDED**

**CA00PG and CA00ME**

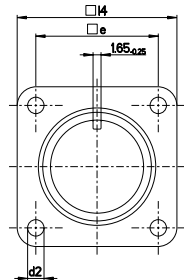
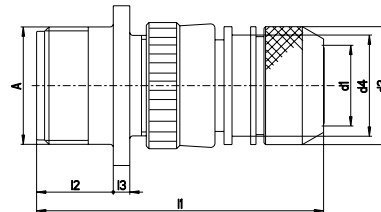
CA00PG/ME designates a wall mounting receptacle for usage with PG or metric glands. It mates with plugs CA3106 and CA3108. The cable gland is not content of the delivery.



| Part No. CA (pin insert*) | A<br>Thread        | d1<br>+0,2/-0,1 | d2        |        | l1<br>max. | l2<br>+0,4 | l3<br>±0,3 | l4<br>±0,3 | e<br>±0,1 |      |
|---------------------------|--------------------|-----------------|-----------|--------|------------|------------|------------|------------|-----------|------|
|                           |                    |                 | PG-Thread | Metric |            |            |            |            |           |      |
| CA00PG10SL-**P-***        | CA00ME10SL-**P-*** | 5/8-24UNEF-2A   | 3,1       | PG9    | M16 × 1,5  | 52,0       | 14,2       | 2,8        | 25,4      | 18,2 |
| CA00PG12S-**P-***         | CA00ME12S-**P-***  | 3/4-20UNEF-2A   | 3,1       | PG9    | M16 × 1,5  | 52,0       | 14,2       | 3,2        | 28,0      | 20,6 |
| CA00PG14S-**P-***         | CA00ME14S-**P-***  | 7/8-20UNEF-2A   | 3,1       | PG11   | M20 × 1,5  | 52,0       | 14,2       | 3,2        | 30,0      | 23,0 |
| CA00PG16S-**P-***         | CA00ME16S-**P-***  | 1-20UNEF-2A     | 3,1       | PG13,5 | M20 × 1,5  | 54,0       | 14,2       | 3,2        | 32,5      | 24,6 |
| CA00PG16-**P-***          | CA00ME16-**P-***   | 1-20UNEF-2A     | 3,1       | PG13,5 | M20 × 1,5  | 64,0       | 19,0       | 3,2        | 32,5      | 24,6 |
| CA00PG18-**P-***          | CA00ME18-**P-***   | 1-1/8-18UNEF-2A | 3,1       | PG13,5 | M25 × 1,5  | 69,0       | 19,0       | 4,0        | 35,0      | 27,0 |
| CA00PG20-**P-***          | CA00ME20-**P-***   | 1-1/4-18UNEF-2A | 3,1       | PG16   | M25 × 1,5  | 70,0       | 19,0       | 4,0        | 38,0      | 29,4 |
| CA00PG22-**P-***          | CA00ME22-**P-***   | 1-3/8-18UNEF-2A | 3,1       | PG16   | M32 × 1,5  | 73,0       | 19,0       | 4,0        | 41,0      | 31,8 |
| CA00PG24-**P-***          | CA00ME24-**P-***   | 1-1/2-18UNEF-2A | 3,7       | PG16   | M32 × 1,5  | 74,0       | 20,6       | 4,0        | 44,5      | 34,9 |
| CA00PG28-**P-***          | CA00ME28-**P-***   | 1-3/4-18UNS-2A  | 3,7       | PG21   | M32 × 1,5  | 74,0       | 20,6       | 4,0        | 50,8      | 39,7 |
| CA00PG32-**P-***          | CA00ME32-**P-***   | 2-18UNS-2A      | 4,4       | PG29   | M40 × 1,5  | 76,0       | 22,2       | 4,0        | 57,0      | 44,5 |
| CA00PG36-**P-***          | CA00ME36-**P-***   | 2-1/4-16UN-2A   | 4,4       | PG29   | M40 × 1,5  | 87,0       | 22,2       | 4,0        | 63,5      | 49,2 |

**CA3100E...-13/-14/-15**

CA3100E...-13/-14/-15 designates a shielded wall mounting receptacle with backshell to accommodate cable braids and heat-shrinkable boots. For Mod. codes please see page 8. It mates with plugs CA3106...-13/-14/-15.



| Part No. CA (pin insert*) | A<br>Thread     | d1 <sup>1</sup> | d2<br>+0,2/-0,1 | d3<br>±0,5 | d4<br>max. | l1<br>max. | l2<br>+0,4 | l3<br>±0,3 | l4<br>±0,5 | e<br>±0,1 |
|---------------------------|-----------------|-----------------|-----------------|------------|------------|------------|------------|------------|------------|-----------|
|                           |                 |                 |                 |            |            |            |            |            |            |           |
| CA3100E12S-**P-***        | 3/4-20UNEF-2A   | 7,9             | 3,1             | 20,0       | 17,0       | 55,0       | 14,2       | 3,2        | 28,0       | 20,6      |
| CA3100E14S-**P-***        | 7/8-20UNEF-2A   | 10,6            | 3,1             | 22,0       | 20,0       | 58,0       | 14,2       | 3,2        | 30,0       | 23,0      |
| CA3100E16S-**P-***        | 1-20UNEF-2A     | 13,5            | 3,1             | 25,0       | 23,0       | 70,0       | 14,2       | 3,2        | 32,5       | 24,6      |
| CA3100E16-**P-***         | 1-20UNEF-2A     | 13,5            | 3,1             | 25,0       | 23,0       | 70,0       | 19,0       | 3,2        | 32,5       | 24,6      |
| CA3100E18-**P-***         | 1-1/8-18UNEF-2A | 14,6            | 3,1             | 28,0       | 24,5       | 70,0       | 19,0       | 4,0        | 35,0       | 27,0      |
| CA3100E20-**P-***         | 1-1/4-18UNEF-2A | 18,5            | 3,1             | 32,0       | 28,5       | 70,0       | 19,0       | 4,0        | 38,0       | 27,0      |
| CA3100E22-**P-***         | 1-3/8-18UNEF-2A | 20,8            | 3,1             | 34,0       | 30,5       | 70,0       | 19,0       | 4,0        | 41,0       | 31,8      |
| CA3100E24-**P-***         | 1-1/2-18UNEF-2A | 24,6            | 3,7             | 38,0       | 34,5       | 70,0       | 20,6       | 4,0        | 44,5       | 34,9      |
| CA3100E28-**P-***         | 1-3/4-18UNS-2A  | 27,0            | 3,7             | 41,0       | 37,5       | 70,0       | 20,6       | 4,0        | 50,8       | 39,7      |
| CA3100E32-**P-***         | 2-18UNS-2A      | 33,3            | 4,4             | 48,0       | 44,0       | 75,0       | 22,2       | 4,0        | 57,0       | 44,5      |
| CA3100E36-**P-***         | 2-1/4-16UN-2A   | 38,5            | 4,4             | 55,0       | 51,0       | 85,0       | 22,2       | 4,0        | 63,5       | 49,2      |

\*For socket inserts substitute "P" with "S" \*\*Add contact arrangement number; see pages 10-22 \*\*\* Add modification code; see page 8

<sup>1</sup> max. cable dia

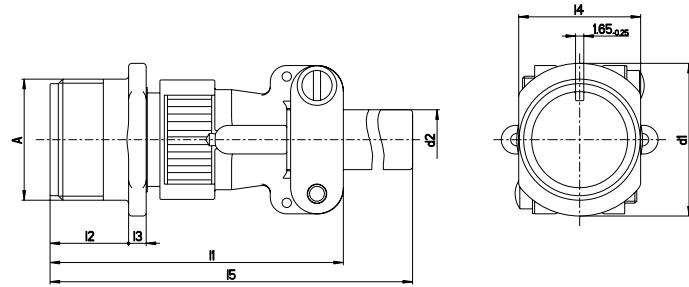
This document solely applies to European manufactured CA Threaded products  
Dimensions shown in mm | Specifications and dimensions subject to change

# CANNON CA THREADED

## CABLE CONNECTING PLUG CLASS F, E, R

### CA3101E

CA3101E designates a cable connecting plug (without flange and coupling nut). It mates with plugs CA3106 and CA3108.

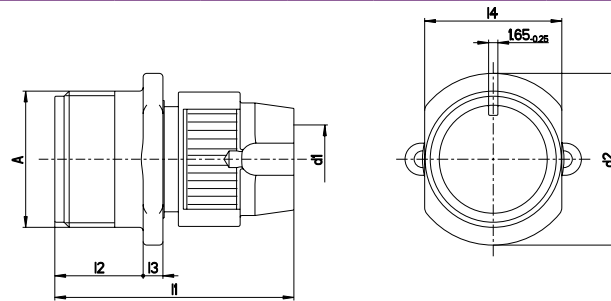


| Part No. CA (pin insert*) | A<br>Thread     | d1<br>max. | d2 <sup>1</sup> | I1<br>max. | I2<br>+0,4 | I3<br>±0,3 | I4<br>max. | I5<br>max. |
|---------------------------|-----------------|------------|-----------------|------------|------------|------------|------------|------------|
| CA3101E10SL-**p***        | 5/8-24UNEF-2A   | 21,8       | 6,5             | 53,0       | 14,2       | 2,8        | 16,2       | 120        |
| CA3101E12S-**p***         | 3/4-20UNEF-2A   | 25,0       | 6,5             | 53,0       | 14,2       | 3,2        | 19,4       | 120        |
| CA3101E14S-**p***         | 7/8-20UNEF-2A   | 28,2       | 9,0             | 55,0       | 14,2       | 3,2        | 22,5       | 120        |
| CA3101E16S-**p***         | 1-20UNEF-2A     | 31,4       | 11,0            | 56,0       | 14,2       | 3,2        | 25,7       | 120        |
| CA3101E16-**p***          | 1-20UNEF-2A     | 31,4       | 11,0            | 66,0       | 19,0       | 3,2        | 25,7       | 125        |
| CA3101E18-**p***          | 1-1/8-18UNEF-2A | 34,5       | 14,2            | 68,0       | 19,0       | 4,0        | 28,9       | 125        |
| CA3101E20-**p***          | 1-1/4-18UNEF-2A | 37,3       | 15,8            | 68,0       | 19,0       | 4,0        | 32,1       | 125        |
| CA3101E22-**p***          | 1-3/8-18UNEF-2A | 40,9       | 15,8            | 68,0       | 19,0       | 4,0        | 35,2       | 125        |
| CA3101E24-**p***          | 1-1/2-18UNEF-2A | 43,8       | 21,4            | 76,0       | 20,6       | 4,0        | 38,4       | 125        |
| CA3101E28-**p***          | 1-3/4-18UNS-2A  | 50,4       | 21,4            | 76,0       | 20,6       | 4,0        | 44,8       | 125        |
| CA3101E32-**p***          | 2-18UNS-2A      | 56,8       | 26,7            | 76,0       | 22,2       | 4,0        | 51,1       | 125        |
| CA3101E36-**p***          | 2-1/4-16UN-2A   | 63,1       | 31,7            | 76,0       | 22,2       | 4,0        | 57,5       | 135        |

<sup>1</sup> max. cable dia

### CA3101R

CA3101R designates a cable connecting plug (without flange and coupling nut) with a shorter and lightweight backshell. It mates with plugs CA3106 and CA3108. Utilized to realize a cable to cable connection. If crimp version is required please order CA3101R...F80 or CA3101R...F183



| Part No. CA (pin insert*) | A<br>Thread     | d1 <sup>1</sup> | I1<br>max. | I2<br>+ 0,4 | I3<br>± 0,3 | I4<br>± 0,2 |
|---------------------------|-----------------|-----------------|------------|-------------|-------------|-------------|
| CA3101R10SL-**p***        | 5/8-24UNEF-2A   | 9,6             | 53,0       | 14,2        | 2,8         | 16,2        |
| CA3101R12S-**p***         | 3/4-20UNEF-2A   | 10,3            | 53,0       | 14,2        | 3,2         | 19,4        |
| CA3101R14S-**p***         | 7/8-20UNEF-2A   | 12,4            | 55,0       | 14,2        | 3,2         | 22,5        |
| CA3101R16S-**p***         | 1-20UNEF-2A     | 15,4            | 56,0       | 14,2        | 3,2         | 25,7        |
| CA3101R16-**p***          | 1-20UNEF-2A     | 15,4            | 66,0       | 19,0        | 3,2         | 25,7        |
| CA3101R18-**p***          | 1-1/8-18UNEF-2A | 18,4            | 68,0       | 19,0        | 4,0         | 28,9        |
| CA3101R20-**p***          | 1-1/4-18UNEF-2A | 22,0            | 68,0       | 19,0        | 4,0         | 32,1        |
| CA3101R22-**p***          | 1-3/8-18UNEF-2A | 24,7            | 68,0       | 19,0        | 4,0         | 35,2        |
| CA3101R24-**p***          | 1-1/2-18UNEF-2A | 27,6            | 76,0       | 20,6        | 4,0         | 38,4        |
| CA3101R28-**p***          | 1-3/4-18UNS-2A  | 31,6            | 76,0       | 20,6        | 4,0         | 44,8        |
| CA3101R32-**p***          | 2-18UNS-2A      | 38,5            | 76,0       | 22,2        | 4,0         | 51,1        |
| CA3101R36-**p***          | 2-1/4-16UN-2A   | 44,5            | 76,0       | 22,2        | 4,0         | 57,5        |

\*For socket inserts substitute "P" with "S" \*\*Add contact arrangement number; see pages 10-22 \*\*\*Add modification code; see page 8

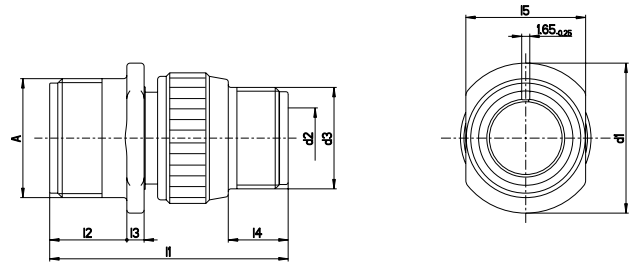
<sup>1</sup> max. cable dia

This document solely applies to European manufactured CA Threaded products  
Dimensions shown in mm | Specifications and dimensions subject to change

**CABLE CONNECTING PLUG CLASS F, DN**

**CA3101F**

CA3101F designates a cable connecting plug (without flange and coupling nut) with backshell for flex tubes or to be combined with a cable clamp. It mates with plugs CA3106 and CA3108. Utilized to realize a cable to cable connection. If crimp version is required please order CA3101F...F80 or CA3101F...F183

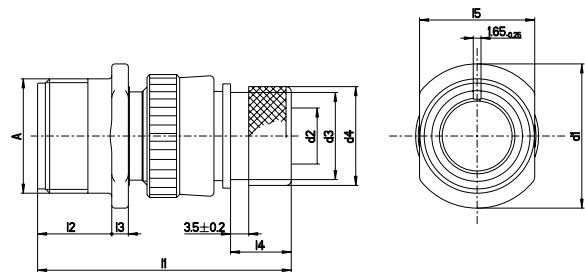


| Part No. CA (pin insert*) | A<br>Thread     | d1<br>max. | d2 <sup>1</sup> | d3<br>Thread     | L1<br>max. | L2<br>+0,4 | L3<br>±0,3 | L4<br>min. | L5<br>±0,2 |
|---------------------------|-----------------|------------|-----------------|------------------|------------|------------|------------|------------|------------|
| CA3101F10SL**P***         | 5/8-24UNEF-2A   | 21,8       | 8,2             | 5/8-24UNEF-2A    | 45,0       | 14,2       | 2,8        | 9,5        | 16,2       |
| CA3101F12S**P***          | 3/4-20UNEF-2A   | 25,0       | 8,2             | 5/8-20UNEF-2A    | 45,0       | 14,2       | 3,2        | 9,5        | 19,4       |
| CA3101F14S**P***          | 7/8-20UNEF-2A   | 28,2       | 11,1            | 3/4-20UNEF-2A    | 45,0       | 14,2       | 3,2        | 9,5        | 22,5       |
| CA3101F16S**P***          | 1-20UNEF-2A     | 31,4       | 14,3            | 7/8-20UNEF-2A    | 45,0       | 14,2       | 3,2        | 9,5        | 25,7       |
| CA3101F16**P***           | 1-20UNEF-2A     | 31,4       | 14,3            | 7/8-20UNEF-2A    | 54,0       | 14,2       | 3,2        | 9,5        | 25,7       |
| CA3101F18**P***           | 1-1/8-18UNEF-2A | 34,5       | 16,7            | 1-20UNEF-2A      | 54,0       | 19,0       | 4,0        | 9,5        | 28,9       |
| CA3101F20**P***           | 1-1/4-18UNEF-2A | 37,3       | 19,8            | 1-3/16-18UNEF-2A | 55,0       | 19,0       | 4,0        | 9,5        | 32,1       |
| CA3101F22**P***           | 1-3/8-18UNEF-2A | 40,9       | 19,8            | 1-3/16-18UNEF-2A | 58,0       | 20,6       | 4,0        | 9,5        | 35,2       |
| CA3101F24**P***           | 1-1/2-18UNEF-2A | 43,8       | 25,4            | 1-7/16-18UNEF-2A | 59,0       | 20,6       | 4,0        | 9,5        | 38,4       |
| CA3101F28**P***           | 1-3/4-18UNS-2A  | 50,4       | 27,0            | 1-7/16-18UNEF-2A | 60,0       | 20,6       | 4,0        | 9,5        | 44,8       |
| CA3101F32**P***           | 2-18UNS-2A      | 56,8       | 32,5            | 1-3/4-18UNS-2A   | 62,0       | 22,2       | 4,0        | 11,0       | 51,1       |
| CA3101F36**P***           | 2-1/4-16UN-2A   | 63,1       | 35,7            | 2-18UNS-2A       | 64,0       | 22,2       | 4,0        | 11,8       | 57,5       |

<sup>1</sup> max. cable dia

**CA3101E-DN**

CA3101E-DN designates a cable connecting plug (without flange and coupling nut) with backshell for heat-shrinkable boots. It mates with plugs CA3106 and CA3108. Utilized to realize a cable to cable connection. If crimp version is required please order CA3101E-DN-F80 or CA3101E-DN-F183



| Part No. CA (pin insert*) | A<br>Thread     | d1<br>max. | d2 <sup>1</sup> | d3<br>±0,5 | d4<br>±0,2 | I1<br>max. | I2<br>±0,3 | I3<br>±0,3 | I4<br>max. | I5<br>±0,2 |
|---------------------------|-----------------|------------|-----------------|------------|------------|------------|------------|------------|------------|------------|
| CA3101E10SL**P-DN         | 5/8-24UNEF-2A   | 21,8       | 7,7             | 15,5       | 7,7        | 49,0       | 14,2       | 2,8        | 11,7       | 16,2       |
| CA3101E12S**P-DN          | 3/4-20UNEF-2A   | 25,0       | 7,9             | 15,5       | 7,9        | 49,0       | 14,2       | 3,2        | 11,7       | 19,4       |
| CA3101E14S**P-DN          | 7/8-20UNEF-2A   | 28,2       | 10,6            | 19,1       | 10,6       | 49,0       | 14,2       | 3,2        | 11,7       | 22,5       |
| CA3101E16S**P-DN          | 1-20UNEF-2A     | 31,4       | 13,5            | 23,9       | 13,5       | 49,0       | 14,1       | 3,2        | 11,7       | 25,7       |
| CA3101E16**P-DN           | 1-20UNEF-2A     | 31,4       | 13,5            | 23,9       | 13,5       | 58,0       | 19,0       | 3,2        | 11,5       | 25,7       |
| CA3101E18**P-DN           | 1-1/8-18UNEF-2A | 34,5       | 14,6            | 23,9       | 14,6       | 58,0       | 19,0       | 4,0        | 11,5       | 28,9       |
| CA3101E20**P-DN           | 1-1/4-18UNEF-2A | 37,3       | 18,7            | 29,6       | 18,7       | 60,0       | 19,0       | 4,0        | 12,7       | 32,1       |
| CA3101E22**P-DN           | 1-3/8-18UNEF-2A | 40,9       | 20,8            | 29,6       | 20,8       | 60,0       | 19,0       | 4,0        | 12,7       | 35,2       |
| CA3101E24**P-DN           | 1-1/2-18UNEF-2A | 43,8       | 24,6            | 37,8       | 24,6       | 63,0       | 20,6       | 4,0        | 12,7       | 38,4       |
| CA3101E28**P-DN           | 1-3/4-18UNS-2A  | 50,4       | 27,0            | 37,8       | 27,0       | 63,0       | 20,6       | 4,0        | 12,7       | 44,8       |
| CA3101E32**P-DN           | 2-18UNS-2A      | 56,8       | 33,3            | 47,8       | 33,3       | 67,0       | 22,2       | 4,0        | 15,2       | 51,1       |
| CA3101E36**P-DN           | 2-1/4-16UN-2A   | 63,1       | 38,5            | 47,8       | 38,5       | 68,0       | 22,2       | 4,0        | 15,2       | 57,5       |

\* For socket inserts substitute "I" with "S" \*\*Add contact arrangement number; see pages 10-22 \*\*\* Add modification code; see page 8

<sup>1</sup> max. cable dia

This document solely applies to European manufactured CA Threaded products  
Dimensions shown in mm | Specifications and dimensions subject to change

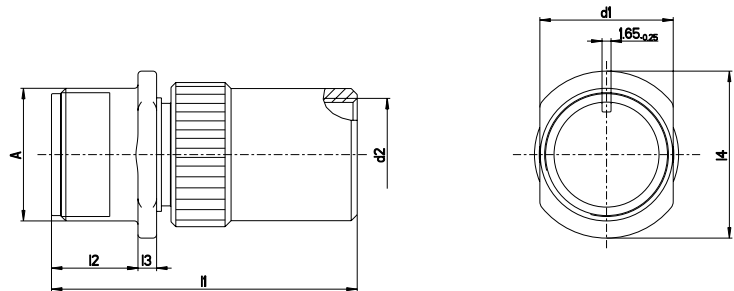


# CANNON CA THREADED

## CABLE CONNECTING PLUG PG/ME, SHIELDED

### CA01PG and CA01ME

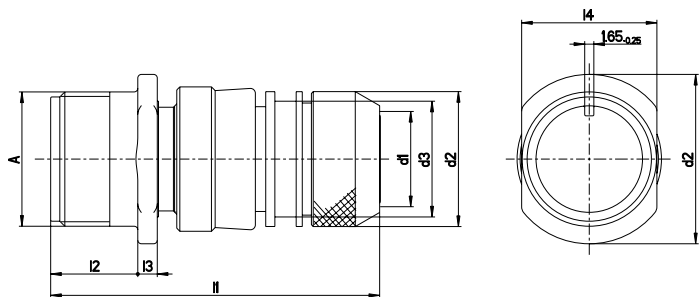
CA01PG/ME designates a cable connecting plug (without flange and coupling nut) for usage with PG or metric glands. It mates with plugs CA3106 and CA3108. The cable gland is not content of the delivery.



| Part No. CA (pin insert*)             | A Thread        | d1 max. | d2 PG-Thread | Metric    | d4 max. | l2 +0,4 | l3 ±0,3 | l4 max. |
|---------------------------------------|-----------------|---------|--------------|-----------|---------|---------|---------|---------|
| CA01PG10SL-**P-*** CA01ME10SL-**P-*** | 5/8-24UNEF-2A   | 16,2    | PG9          | M16 × 1,5 | 52,0    | 14,2    | 2,8     | 21,8    |
| CA01PG12S-**P-*** CA01ME12S-**P-***   | 3/4-20UNEF-2A   | 19,4    | PG9          | M16 × 1,5 | 52,0    | 14,2    | 3,2     | 25,0    |
| CA01PG14S-**P-*** CA01ME14S-**P-***   | 7/8-20UNEF-2A   | 22,5    | PG11         | M20 × 1,5 | 52,0    | 14,2    | 3,2     | 28,2    |
| CA01PG16S-**P-*** CA01ME16S-**P-***   | 1-20UNEF-2A     | 25,7    | PG13,5       | M20 × 1,5 | 54,0    | 14,2    | 3,2     | 31,4    |
| CA01PG16-**P-*** CA01ME16-**P-***     | 1-20UNEF-2A     | 25,7    | PG13,5       | M20 × 1,5 | 64,0    | 19,0    | 3,2     | 31,4    |
| CA01PG18-**P-*** CA01ME18-**P-***     | 1-1/8-18UNEF-2A | 28,9    | PG13,5       | M25 × 1,5 | 69,0    | 19,0    | 4,0     | 34,5    |
| CA01PG20-**P-*** CA01ME20-**P-***     | 1-1/4-18UNEF-2A | 32,1    | PG16         | M25 × 1,5 | 70,0    | 19,0    | 4,0     | 37,3    |
| CA01PG22-**P-*** CA01ME22-**P-***     | 1-3/8-18UNEF-2A | 35,2    | PG16         | M32 × 1,5 | 73,0    | 19,0    | 4,0     | 40,9    |
| CA01PG24-**P-*** CA01ME24-**P-***     | 1-1/2-18UNEF-2A | 38,4    | PG16         | M32 × 1,5 | 74,0    | 20,6    | 4,0     | 43,8    |
| CA01PG28-**P-*** CA01ME28-**P-***     | 1-3/4-18UNS-2A  | 44,8    | PG21         | M32 × 1,5 | 74,0    | 20,6    | 4,0     | 50,4    |
| CA01PG32-**P-*** CA01ME32-**P-***     | 2-18UNS-2A      | 51,1    | PG29         | M40 × 1,5 | 76,0    | 22,2    | 4,0     | 56,8    |
| CA01PG36-**P-*** CA01ME36-**P-***     | 2-1/4-16UN-2A   | 57,5    | PG29         | M40 × 1,5 | 87,0    | 22,2    | 4,0     | 63,1    |

### CA3101E...-13/-14/-15

CA3101E...-13/-14/-15 designates a shielded cable connecting plug (without flange and coupling nut) to accommodate cable braids and heat-shrinkable boots. For Mod. codes please see page 8. It mates with plugs CA3106...-13/-14/-15. Utilized to realize a cable to cable connection.



| Part No. CA (pin insert*) | A Thread        | d1 <sup>1</sup> | d2 ±0,5 | d3 max. | l1 max. | l2 ±0,3 | l3 ±0,3 | l4 max. |
|---------------------------|-----------------|-----------------|---------|---------|---------|---------|---------|---------|
| CA3101E10SL-**P-***       | 5/8-24UNEF-2A   | 7,7             | 18,5    | 16,3    | 55,0    | 14,2    | 2,8     | 16,2    |
| CA3101E12S-**P-***        | 3/4-20UNEF-2A   | 7,9             | 20,0    | 17,0    | 55,0    | 14,2    | 3,2     | 19,4    |
| CA3101E14S-**P-***        | 7/8-20UNEF-2A   | 10,6            | 22,0    | 20,0    | 58,0    | 14,2    | 3,2     | 22,5    |
| CA3101E16S-**P-***        | 1-20UNEF-2A     | 13,5            | 25,0    | 23,0    | 70,0    | 14,1    | 3,2     | 25,7    |
| CA3101E16-**P-***         | 1-20UNEF-2A     | 13,5            | 25,0    | 23,0    | 70,0    | 19,0    | 3,2     | 25,7    |
| CA3101E18-**P-***         | 1-1/8-18UNEF-2A | 14,6            | 28,0    | 24,5    | 70,0    | 19,0    | 4,0     | 28,9    |
| CA3101E20-**P-***         | 1-1/4-18UNEF-2A | 14,6            | 32,0    | 28,5    | 70,0    | 19,0    | 4,0     | 32,1    |
| CA3101E22-**P-***         | 1-3/8-18UNEF-2A | 20,8            | 34,0    | 30,5    | 70,0    | 19,0    | 4,0     | 35,2    |
| CA3101E24-**P-***         | 1-1/2-18UNEF-2A | 24,6            | 38,0    | 34,5    | 70,0    | 20,6    | 4,0     | 38,4    |
| CA3101E28-**P-***         | 1-3/4-18UNS-2A  | 27,0            | 41,0    | 37,5    | 70,0    | 20,6    | 4,0     | 44,8    |
| CA3101E32-**P-***         | 2-18UNS-2A      | 33,3            | 48,0    | 44,0    | 75,0    | 22,2    | 4,0     | 51,1    |
| CA3101E36-**P-***         | 2-1/4-16UN-2A   | 38,5            | 55,0    | 51,0    | 85,0    | 22,2    | 4,0     | 57,5    |

\*For socket inserts substitute "P" with "S" \*\*Add contact arrangement number; see pages 10-22 \*\*\*Add modification code; see page 8

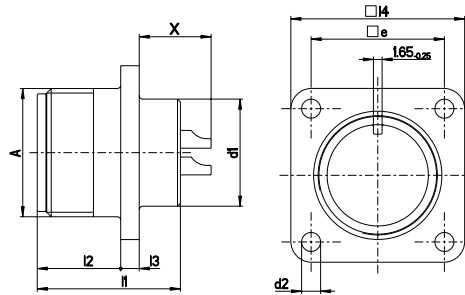
<sup>1</sup> max. cable dia

This document solely applies to European manufactured CA Threaded products  
Dimensions shown in mm | Specifications and dimensions subject to change

**BOX MOUNTING RECEPTACLE**

**CA3102**

CA3102E designates a box mounting receptacle for front panel mounting with square flange. It mates with plugs CA3106 and CA3108. If crimp version is required please order CA3102E...F80 or CA3102E...F183.



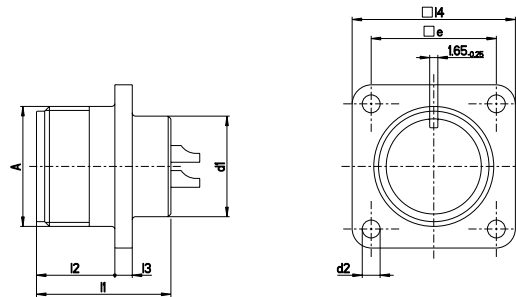
| Shell size  | Contact size |      |      |      |
|-------------|--------------|------|------|------|
|             | 16           | 12   | 8    | 4    |
| 10SL        | 13,6         | -    | -    | -    |
| 12S,14S,16S | 13,2         | -    | -    | -    |
| 12          | 17,9         | 17,9 | -    | -    |
| 14          | 17,9         | 17,9 | 19,5 | -    |
| 16          | 17,9         | 17,9 | 19,5 | 19,5 |
| 18          | 17,1         | 17,1 | 18,7 | 18,7 |
| 20, 22      | 17,1         | 17,1 | 18,7 | 18,7 |
| 24, 28      | 15,5         | 15,5 | 17,1 | 17,1 |
| 32, 36      | 13,9         | 13,9 | 15,5 | 15,5 |

| Part No. CA (pin insert*) | A Thread        | I1 max. | I2 +0,4 | I3 ±0,7 | I4 ±0,3 | d1 max. | d2 +0,2/-0,1 | e ±0,1 |
|---------------------------|-----------------|---------|---------|---------|---------|---------|--------------|--------|
| CA3102E10SL-***p***       | 5/8-24UNEF-2A   | 25,1    | 14,2    | 3,0     | 25,4    | 15,9    | 3,1          | 18,2   |
| CA3102E12S-***p***        | 3/4-20UNEF-2A   | 25,1    | 14,2    | 3,0     | 28,0    | 15,9    | 3,1          | 20,6   |
| CA3102E14S-***p***        | 7/8-20UNEF-2A   | 25,1    | 14,2    | 3,0     | 30,0    | 19,0    | 3,1          | 23,0   |
| CA3102E16S-***p***        | 1-20UNEF-2A     | 25,1    | 14,2    | 3,0     | 32,5    | 22,2    | 3,1          | 24,6   |
| CA3102E16-***p***         | 1-20UNEF-2A     | 34,6    | 19,0    | 3,0     | 32,5    | 22,2    | 3,1          | 24,6   |
| CA3102E18-***p***         | 1-1/8-18UNEF-2A | 34,6    | 19,0    | 3,9     | 35,0    | 25,4    | 3,1          | 27,0   |
| CA3102E20-***p***         | 1-1/4-18UNEF-2A | 34,6    | 19,0    | 3,9     | 38,0    | 29,0    | 3,1          | 29,4   |
| CA3102E22-***p***         | 1-3/8-18UNEF-2A | 34,6    | 19,0    | 3,9     | 41,0    | 32,2    | 3,1          | 31,8   |
| CA3102E24-***p***         | 1-1/2-18UNEF-2A | 36,2    | 20,6    | 3,9     | 44,5    | 35,3    | 3,7          | 34,9   |
| CA3102E28-***p***         | 1-3/4-18UNS-2A  | 36,2    | 20,6    | 3,9     | 50,8    | 41,2    | 3,7          | 39,7   |
| CA3102E32-***p***         | 2-18UNS-2A      | 37,8    | 22,2    | 3,9     | 57,0    | 47,6    | 4,4          | 44,5   |
| CA3102E36-***p***         | 2-1/4-16UN-2A   | 37,8    | 22,2    | 3,9     | 63,5    | 52,4    | 4,4          | 49,2   |

Note: Older versions also used the designation CA3102R instead of the CA3102E. These parts would be identical but the designation is no longer valid.

**CA20E**

CA20E designates a box mounting receptacle for rear panel mounting. It mates with plugs CA3106 and CA3108.



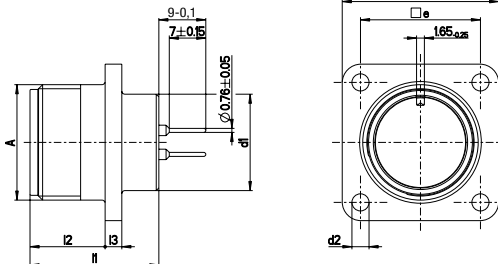
| Part No. CA (pin insert*) | A Thread        | d1 max. | d2  |            | I1 max. | I2 +0,4 | I3 ±0,3 | I4 ±0,3 | e ±0,1 |
|---------------------------|-----------------|---------|-----|------------|---------|---------|---------|---------|--------|
|                           |                 |         | H13 | Code: BM29 |         |         |         |         |        |
| CA20E10SL-**-p-***        | 5/8-24UNEF-2A   | 14,5    | 3,2 | M4         | 25,1    | 18,2    | 2,8     | 25,4    | 18,2   |
| CA20E12S-**-p-***         | 3/4-20UNEF-2A   | 16,1    | 3,2 | M4         | 25,1    | 18,2    | 3,2     | 28,0    | 20,6   |
| CA20E14S-**-p-***         | 7/8-20UNEF-2A   | 19,2    | 3,2 | M4         | 25,1    | 18,2    | 3,2     | 30,0    | 23,0   |
| CA20E16S-**-p-***         | 1-20UNEF-2A     | 22,4    | 3,2 | M4         | 25,1    | 18,2    | 3,2     | 32,5    | 24,6   |
| CA20E16-**-p-***          | 1-20UNEF-2A     | 22,4    | 3,2 | M4         | 34,2    | 21,5    | 3,2     | 32,5    | 24,6   |
| CA20E18-**-p-***          | 1-1/8-18UNEF-2A | 25,6    | 3,2 | M4         | 34,2    | 23,05   | 4,0     | 35,0    | 27,0   |
| CA20E20-**-p-***          | 1-1/4-18UNEF-2A | 29,0    | 3,2 | M4         | 34,2    | 23,05   | 4,0     | 38,0    | 29,4   |
| CA20E22-**-p-***          | 1-3/8-18UNEF-2A | 32,2    | 3,2 | M4         | 34,2    | 23,05   | 4,0     | 41,0    | 31,8   |
| CA20E24-**-p-***          | 1-1/2-18UNEF-2A | 35,3    | 3,7 | M5         | 34,2    | 24,05   | 4,0     | 44,5    | 34,9   |
| CA20E28-**-p-***          | 1-3/4-18UNS-2A  | 41,4    | 3,7 | M5         | 34,2    | 24,05   | 4,0     | 50,8    | 39,7   |
| CA20E32-**-p-***          | 2-18UNS-2A      | 47,8    | 4,4 | M6         | 34,2    | 24,05   | 4,0     | 57,0    | 44,5   |
| CA20E36-**-p-***          | 2-1/4-16UN-2A   | 54,1    | 4,4 | M6         | 34,2    | 24,05   | 4,0     | 63,5    | 49,2   |

\*For socket inserts substitute "P" with "S" \*\*Add contact arrangement number; see pages 10-22 \*\*\*Add modification code; see page 8

## BOX MOUNTING RECEPTACLE PCB VERSION

### CA02L

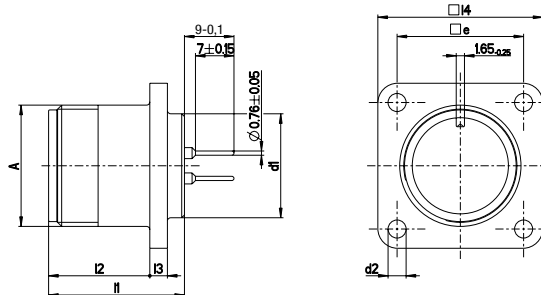
CA02L designates a box mounting receptacle for front panel mounting with PCB termination. It mates with plugs CA3106 and CA3108. Available for contact arrangements with #16 contacts only. For #12 contacts consult factory.



| Part No. CA (pin insert*) | A<br>Thread     | d1<br>max. | d2<br>+0,2/-0,1 | l1<br>max. | l2<br>+0,4 | l3<br>0,3 | l4<br>0,3 | e<br>0,1 |
|---------------------------|-----------------|------------|-----------------|------------|------------|-----------|-----------|----------|
| CA02L10SL-**-p-***        | 5/8-24UNEF-2A   | 15,9       | 3,1             | 25,1       | 14,2       | 2,8       | 25,4      | 18,2     |
| CA02L12S-**-p-***         | 3/4-20UNEF-2A   | 15,9       | 3,1             | 25,1       | 14,2       | 3,2       | 28,0      | 20,6     |
| CA02L14S-**-p-***         | 7/8-20UNEF-2A   | 19,0       | 3,1             | 25,1       | 14,2       | 3,2       | 30,0      | 23,0     |
| CA02L16S-**-p-***         | 1-20UNEF-2A     | 22,2       | 3,1             | 25,1       | 14,2       | 3,2       | 32,5      | 24,6     |
| CA02L16-**-p-***          | 1-20UNEF-2A     | 22,2       | 3,1             | 34,2       | 19,0       | 3,2       | 32,5      | 24,6     |
| CA02L18-**-p-***          | 1-1/8-18UNEF-2A | 25,4       | 3,1             | 34,2       | 19,0       | 4,0       | 35,0      | 27,0     |
| CA02L20-**-p-***          | 1-1/4-18UNEF-2A | 29,0       | 3,1             | 34,2       | 19,0       | 4,0       | 38,0      | 29,4     |
| CA02L22-**-p-***          | 1-3/8-18UNEF-2A | 32,2       | 3,1             | 34,2       | 19,0       | 4,0       | 41,0      | 31,8     |
| CA02L24-**-p-***          | 1-1/2-18UNEF-2A | 35,3       | 3,7             | 34,2       | 20,6       | 4,0       | 44,5      | 34,9     |
| CA02L28-**-p-***          | 1-3/4-18UNS-2A  | 41,2       | 3,7             | 34,2       | 20,6       | 4,0       | 50,8      | 39,7     |
| CA02L32-**-p-***          | 2-18UNS-2A      | 47,6       | 4,4             | 34,2       | 22,2       | 4,0       | 57,0      | 44,5     |
| CA02L36-**-p-***          | 2-1/4-16UN-2A   | 52,4       | 4,4             | 34,2       | 22,2       | 4,0       | 63,5      | 49,2     |

### CA20L

CA20L designates a box mounting receptacle for rear panel mounting with PCB termination. It mates with plugs CA3106 and CA3108. Available for contact arrangements with #16 contacts only. For #12 contacts consult factory.



| Part No. CA (pin insert*) | A<br>Thread     | d1<br>max. | d2         |           | l1<br>max. | l2<br>0,4 | l3<br>±0,3 | l4<br>±0,3 | e<br>±0,1 |
|---------------------------|-----------------|------------|------------|-----------|------------|-----------|------------|------------|-----------|
|                           |                 |            | H13 (Std.) | Code BM29 |            |           |            |            |           |
| CA20L10SL-**-p-***        | 5/8-24UNEF-2A   | 14,5       | 3,2        | M4        | 25,1       | 18,2      | 2,8        | 25,4       | 18,2      |
| CA20L12S-**-p-***         | 3/4-20UNEF-2A   | 16,1       | 3,2        | M4        | 25,1       | 18,2      | 3,2        | 28,0       | 20,6      |
| CA20L14S-**-p-***         | 7/8-20UNEF-2A   | 19,2       | 3,2        | M4        | 25,1       | 18,2      | 3,2        | 30,0       | 23,0      |
| CA20L16S-**-p-***         | 1-20UNEF-2A     | 22,4       | 3,2        | M4        | 25,1       | 18,2      | 3,2        | 32,5       | 24,6      |
| CA20L16-**-p-***          | 1-20UNEF-2A     | 22,4       | 3,2        | M4        | 34,2       | 21,5      | 3,2        | 32,5       | 24,6      |
| CA20L18-**-p-***          | 1-1/8-18UNEF-2A | 25,6       | 3,2        | M4        | 34,2       | 23,05     | 4,0        | 35,0       | 27,0      |
| CA20L20-**-p-***          | 1-1/4-18UNEF-2A | 29,0       | 3,2        | M4        | 34,2       | 23,05     | 4,0        | 38,0       | 29,4      |
| CA20L22-**-p-***          | 1-3/8-18UNEF-2A | 32,2       | 3,2        | M4        | 34,2       | 23,05     | 4,0        | 41,0       | 31,8      |
| CA20L24-**-p-***          | 1-1/2-18UNEF-2A | 35,3       | 3,7        | M5        | 34,2       | 24,05     | 4,0        | 44,5       | 34,9      |
| CA20L28-**-p-***          | 1-3/4-18UNS-2A  | 41,4       | 3,7        | M5        | 34,2       | 24,05     | 4,0        | 50,8       | 39,7      |
| CA20L32-**-p-***          | 2-18UNS-2A      | 47,8       | 4,4        | M6        | 34,2       | 24,05     | 4,0        | 57,0       | 44,5      |
| CA20L36-**-p-***          | 2-1/4-16UN-2A   | 54,1       | 4,4        | M6        | 34,2       | 24,05     | 4,0        | 63,5       | 49,2      |

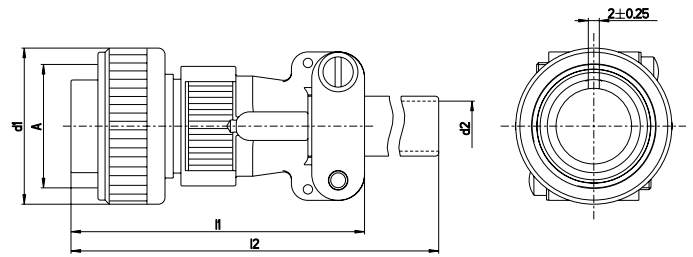
\*For socket inserts substitute "P" with "S" \*\*Add contact arrangement number; see pages 10-22 \*\*\* Add modification code; see page 8

This document solely applies to European manufactured CA Threaded products  
Dimensions shown in mm | Specifications and dimensions subject to change

## STRAIGHT PLUG GENERAL DUTY CLASS E, R

## CA06R/CA3106E

CA06R and CA3106E are straight plugs. They mate with 3100, 3102, CA02L, CA20E, CA20L receptacles and 3101 plugs. If crimp version is required please order CA3106E...F80/F183 (without O-ring) or CA06R...F80/F183 (with O-ring).



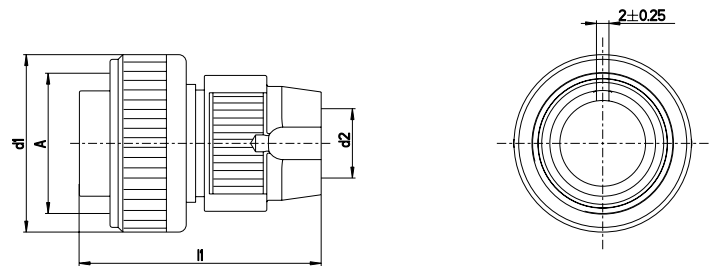
| Part No. CA (pin insert*) | A<br>Thread     | d1<br>max. | d2 <sup>1</sup> | l1<br>max. | l2<br>max. |
|---------------------------|-----------------|------------|-----------------|------------|------------|
| CA06R10SL-***p***         | 5/8-24UNEF-2B   | 24,1       | 6,5             | 53,0       | 115,0      |
| CA06R12S-***p***          | 3/4-20UNEF-2B   | 25,8       | 6,5             | 53,0       | 115,0      |
| CA06R14S-***p***          | 7/8-20UNEF-2B   | 28,8       | 9,0             | 55,0       | 115,0      |
| CA06R16S-***p***          | 1-20UNEF-2B     | 31,8       | 11,0            | 56,0       | 115,0      |
| CA06R16-***p***           | 1-20UNEF-2B     | 31,8       | 11,0            | 66,0       | 120,0      |
| CA06R18-***p***           | 1-1/8-18UNEF-2B | 34,1       | 14,2            | 68,0       | 120,0      |
| CA06R20-***p***           | 1-1/4-18UNEF-2B | 37,4       | 15,8            | 68,0       | 120,0      |
| CA06R22-***p***           | 1-3/8-18UNEF-2B | 40,5       | 15,8            | 68,0       | 120,0      |
| CA06R24-***p***           | 1-1/2-18UNEF-2B | 43,8       | 21,4            | 76,0       | 120,0      |
| CA06R28-***p***           | 1-3/4-18UNS-2B  | 50,2       | 21,4            | 76,0       | 120,0      |
| CA06R32-***p***           | 2-18UNS-2B      | 56,4       | 26,7            | 76,0       | 120,0      |
| CA06R36-***p***           | 2-1/4-16UN-2B   | 62,8       | 31,7            | 76,0       | 130,0      |

<sup>1</sup> max. cable dia

## CA3106R

The CA3106R straight plug has a shorter lightweight backshell than CA3106E. It contains an O-ring seal under the coupling nut.

CA3106R plugs mate with 3100, 3102, CA02L, CA20E, CA20L receptacles and 3101 plugs. If crimp version is required please order CA3106R...F80, CA3106R...F183.



| Part No. CA (pin insert*) | A<br>Thread     | d1<br>max. | d2 <sup>1</sup> | l1<br>max. |
|---------------------------|-----------------|------------|-----------------|------------|
| CA3106R10SL-***p***       | 5/8-24UNEF-2B   | 24,1       | 9,6             | 53,0       |
| CA3106R12S-***p***        | 3/4-20UNEF-2B   | 25,8       | 10,3            | 53,0       |
| CA3106R14S-***p***        | 7/8-20UNEF-2B   | 28,8       | 12,4            | 55,0       |
| CA3106R16S-***p***        | 1-20UNEF-2B     | 31,8       | 15,4            | 56,0       |
| CA3106R16-***p***         | 1-20UNEF-2B     | 31,8       | 15,4            | 66,0       |
| CA3106R18-***p***         | 1-1/8-18UNEF-2B | 34,1       | 18,4            | 68,0       |
| CA3106R20-***p***         | 1-1/4-18UNEF-2B | 37,4       | 22,0            | 68,0       |
| CA3106R22-***p***         | 1-3/8-18UNEF-2B | 40,5       | 24,7            | 68,0       |
| CA3106R24-***p***         | 1-1/2-18UNEF-2B | 43,8       | 27,6            | 76,0       |
| CA3106R28-***p***         | 1-3/4-18UNS-2B  | 50,2       | 31,6            | 76,0       |
| CA3106R32-***p***         | 2-18UNS-2B      | 56,4       | 38,5            | 76,0       |
| CA3106R36-***p***         | 2-1/4-16UN-2B   | 62,8       | 44,5            | 76,0       |

\*For socket inserts substitute "P" with "S" \*\*Add contact arrangement number; see pages 10-22 \*\*\* Add modification code; see page 8

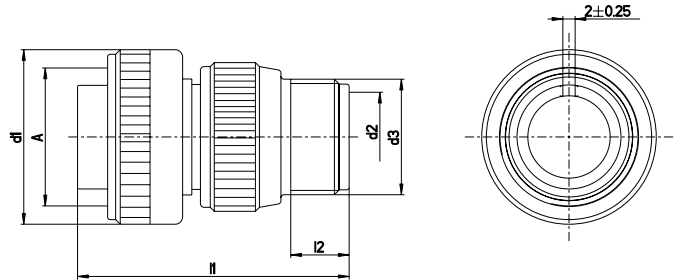
<sup>1</sup> max. cable dia

# CANNON CA THREADED

## STRAIGHT PLUG CLASS F, DN

### CA3106F

CA3106F designates a straight plug with backshell for flex tubes or to be combined with a cable clamp. It mates with receptacles 3100, 3102, CA02L, CA20E, CA20L and 3101 plugs.

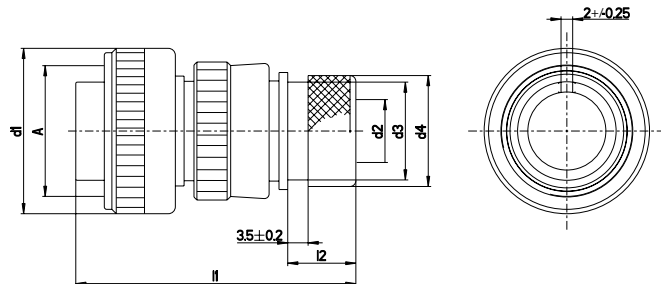


| Part No. CA (pin insert*) | A Thread        | d1 max. | d2 <sup>1</sup> | d3 Thread        | l1 max. | l2 min. |  |
|---------------------------|-----------------|---------|-----------------|------------------|---------|---------|--|
| CA3106F10SL-***P          | 5/8-24UNEF-2B   | 24,1    | 8,2             | 5/8-24UNEF-2A    | 45,0    | 9,5     |  |
| CA3106F12S-***P           | 3/4-20UNEF-2B   | 25,8    | 8,2             | 5/8-20UNEF-2A    | 45,0    | 9,5     |  |
| CA3106F14S-***P           | 7/8-20UNEF-2B   | 28,8    | 11,1            | 3/4-20UNEF-2A    | 45,0    | 9,5     |  |
| CA3106F16S-***P           | 1-20UNEF-2B     | 31,8    | 14,3            | 7/8-20UNEF-2A    | 45,0    | 9,5     |  |
| CA3106F16-***P            | 1-20UNEF-2B     | 31,8    | 14,3            | 7/8-20UNEF-2A    | 54,0    | 9,5     |  |
| CA3106F18-***P            | 1-1/8-18UNEF-2B | 34,1    | 16,7            | 1-20UNEF-2A      | 54,0    | 9,5     |  |
| CA3106F20-***P            | 1-1/4-18UNEF-2B | 37,4    | 19,8            | 1-3/16-18UNEF-2A | 55,0    | 9,5     |  |
| CA3106F22-***P            | 1-3/8-18UNEF-2B | 40,5    | 19,8            | 1-3/16-18UNEF-2A | 58,0    | 9,5     |  |
| CA3106F24-***P            | 1-1/2-18UNEF-2B | 43,8    | 25,4            | 1-7/16-18UNEF-2A | 59,0    | 9,5     |  |
| CA3106F28-***P            | 1-3/4-18UNS-2B  | 50,2    | 27,0            | 1-7/16-18UNEF-2A | 60,0    | 9,5     |  |
| CA3106F32-***P            | 2-18UNS-2B      | 56,4    | 32,5            | 1-3/4-18UNS-2A   | 62,0    | 11,0    |  |
| CA3106F36-***P            | 2-1/4-16UN-2B   | 62,8    | 35,7            | 2-18UNS-2A       | 64,0    | 11,8    |  |

<sup>1</sup> max. cable dia

### CA3106E-DN

CA3106E-DN designates a straight plug with backshell for heat-shrinkable boots. CA3106E-DN has an O-ring seal under the coupling nut. It mates with receptacles 3100, 3102, CA02L, CA20E, CA20L and 3101 plugs



| Part No. CA (pin insert*) | A Thread        | d1 max. | d2 <sup>1</sup> | d3 max. | d4 ±0,2 | l1 max. | l2 ±0,5 |  |
|---------------------------|-----------------|---------|-----------------|---------|---------|---------|---------|--|
| CA3106E10SL-***P-DN       | 5/8-24UNEF-2B   | 24,1    | 7,7             | 13,3    | 15,5    | 49,0    | 11,7    |  |
| CA3106E12S-***P-DN        | 3/4-20UNEF-2B   | 25,8    | 7,9             | 13,3    | 15,5    | 49,0    | 11,7    |  |
| CA3106E14S-***P-DN        | 7/8-20UNEF-2B   | 28,8    | 10,6            | 17,0    | 19,1    | 49,0    | 11,7    |  |
| CA3106E16S-***P-DN        | 1-20UNEF-2B     | 31,8    | 13,5            | 21,9    | 23,9    | 49,0    | 11,7    |  |
| CA3106E16-***P-DN         | 1-20UNEF-2B     | 31,8    | 13,5            | 21,9    | 23,9    | 58,0    | 11,5    |  |
| CA3106E18-***P-DN         | 1-1/8-18UNEF-2B | 34,1    | 14,6            | 21,9    | 23,9    | 58,0    | 11,5    |  |
| CA3106E20-***P-DN         | 1-1/4-18UNEF-2B | 37,4    | 18,7            | 26,2    | 29,6    | 60,0    | 12,7    |  |
| CA3106E22-***P-DN         | 1-3/8-18UNEF-2B | 40,5    | 20,8            | 26,2    | 29,6    | 60,0    | 12,7    |  |
| CA3106E24-***P-DN         | 1-1/2-18UNEF-2B | 43,8    | 24,6            | 34,5    | 37,8    | 63,0    | 12,7    |  |
| CA3106E28-***P-DN         | 1-3/4-18UNS-2B  | 50,2    | 27,0            | 34,5    | 37,8    | 63,0    | 12,7    |  |
| CA3106E32-***P-DN         | 2-18UNS-2B      | 56,4    | 33,3            | 43,6    | 47,8    | 67,0    | 15,2    |  |
| CA3106E36-***P-DN         | 2-1/4-16UN-2B   | 62,8    | 38,5            | 43,6    | 47,8    | 68,0    | 15,2    |  |

\*For socket inserts substitute "P" with "S" \*\*Add contact arrangement number; see pages 10-22 \*\*\* Add modification code; see page 8

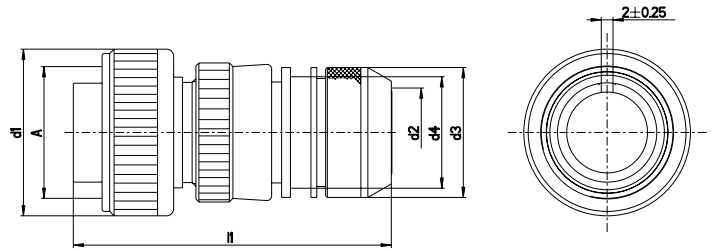
<sup>1</sup> max. cable dia

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Dimensions shown in mm | Specifications and dimensions subject to change

**STRAIGHT PLUG PG/ME, SHIELDED**

**CA3106E...-13/-14/-15**

CA3106E...-13/-14/-15 is a shielded straight plug with backshell to accommodate cable braids and heat-shrinkable boots. It has an O-ring under the coupling nut. It mates with receptacles 3100E...-13/-14/-15, 3102, CA02L, CA20E, CA20L and 3101...-13/-14/-15 plugs.

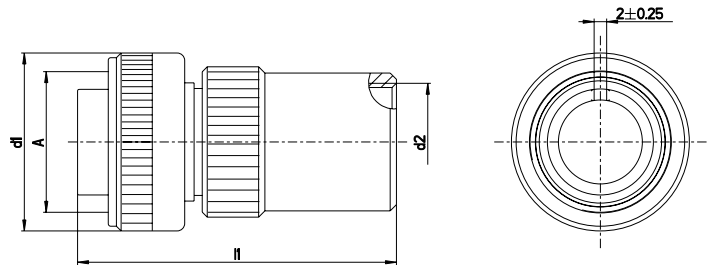


| Part No. CA (pin insert*) | A Thread        | d1 max. | d2 <sup>1</sup> | d3 ±0,5 | d4 max. | l1 max. | l1 max. |
|---------------------------|-----------------|---------|-----------------|---------|---------|---------|---------|
| CA3106E10SL-**P**         | 5/8-24UNEF-2B   | 24,1    | 7,7             | 18,5    | 16,3    | 55,0    | 55,0    |
| CA3106E12S-**P**          | 3/4-20UNEF-2B   | 25,8    | 7,9             | 20,0    | 17,0    | 55,0    | 55,0    |
| CA3106E14S-**P**          | 7/8-20UNEF-2B   | 28,8    | 10,6            | 22,0    | 20,0    | 55,0    | 55,0    |
| CA3106E16S-**P**          | 1-20UNEF-2B     | 31,8    | 13,5            | 25,0    | 23,0    | 60,0    | 60,0    |
| CA3106E16-**P**           | 1-20UNEF-2B     | 31,8    | 13,5            | 25,0    | 23,0    | 70,0    | 70,0    |
| CA3106E18-**P**           | 1-1/8-18UNEF-2B | 34,1    | 14,6            | 28,0    | 24,5    | 70,0    | 70,0    |
| CA3106E20-**P**           | 1-1/4-18UNEF-2B | 37,4    | 14,6            | 32,0    | 28,5    | 70,0    | 70,0    |
| CA3106E22-**P**           | 1-3/8-18UNEF-2B | 40,5    | 20,8            | 34,0    | 30,5    | 70,0    | 70,0    |
| CA3106E24-**P**           | 1-1/2-18UNEF-2B | 43,8    | 24,6            | 38,0    | 34,5    | 70,0    | 70,0    |
| CA3106E28-**P**           | 1-3/4-18UNS-2B  | 50,2    | 27,0            | 41,0    | 37,5    | 70,0    | 70,0    |
| CA3106E32-**P**           | 2-18UNS-2B      | 56,4    | 33,3            | 48,0    | 44,0    | 70,0    | 70,0    |
| CA3106E36-**P**           | 2-1/4-16UN-2B   | 62,8    | 38,5            | 55,0    | 51,0    | 80,0    | 80,0    |

<sup>1</sup> max. cable dia

**CA06PG/ME**

CA06PG/ME is a straight plug for usage of PG or metric glands. CA06PG / ME has an O-ring seal under the coupling nut. The cable gland is not content of the delivery. It mates with receptacles 3100, 3102, CA02L, CA20E, CA20L and 3101 plugs.



| Part No. CA (pin insert*) | CA (pin insert*)   | A Thread        | d1 max. | d2        |           | l1 max. |
|---------------------------|--------------------|-----------------|---------|-----------|-----------|---------|
|                           |                    |                 |         | PG-Thread | Metric    |         |
| CA06PG10SL-**P-***        | CA06ME10SL-**P-*** | 5/8-24UNEF-2B   | 24,1    | PG9       | M16 × 1,5 | 52,0    |
| CA06PG12S-**P-***         | CA06ME12S-**P-***  | 3/4-20UNEF-2B   | 25,8    | PG9       | M16 × 1,5 | 52,0    |
| CA06PG14S-**P-***         | CA06ME14S-**P-***  | 7/8-20UNEF-2B   | 28,8    | PG11      | M20 × 1,5 | 52,0    |
| CA06PG16S-**P-***         | CA06ME16S-**P-***  | 1-20UNEF-2B     | 31,8    | PG13,5    | M20 × 1,5 | 54,0    |
| CA06PG16-**P-***          | CA06ME16-**P-***   | 1-20UNEF-2B     | 31,8    | PG13,5    | M20 × 1,5 | 64,0    |
| CA06PG18-**P-***          | CA06ME18-**P-***   | 1-1/8-18UNEF-2B | 34,1    | PG13,5    | M25 × 1,5 | 69,0    |
| CA06PG20-**P-***          | CA06ME20-**P-***   | 1-1/4-18UNEF-2B | 37,4    | PG16      | M25 × 1,5 | 70,0    |
| CA06PG22-**P-***          | CA06ME22-**P-***   | 1-3/8-18UNEF-2B | 40,5    | PG16      | M32 × 1,5 | 73,0    |
| CA06PG24-**P-***          | CA06ME24-**P-***   | 1-1/2-18UNEF-2B | 43,8    | PG16      | M32 × 1,5 | 74,0    |
| CA06PG28-**P-***          | CA06ME28-**P-***   | 1-3/4-18UNS-2B  | 50,2    | PG21      | M32 × 1,5 | 74,0    |
| CA06PG32-**P-***          | CA06ME32-**P-***   | 2-18UNS-2B      | 56,4    | PG29      | M40 × 1,5 | 76,0    |
| CA06PG36-**P-***          | CA06ME36-**P-***   | 2-1/4-16UN-2B   | 62,8    | PG29      | M40 × 1,5 | 87,0    |

\*For socket inserts substitute "P" with "S" \*\*Add contact arrangement number; see pages 10-22 \*\*\* Add modification code; see page 8

This document solely applies to European manufactured CA Threaded products  
Dimensions shown in mm | Specifications and dimensions subject to change

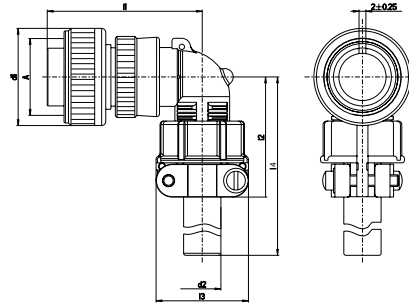


# CANNON CA THREADED

## 90° PLUG

### CA3108E

CA3108E are right angle plugs which mate with receptacles 3100, 3102, CA02L, CA20E, CA20L and 3101 plugs.  
If crimp version is required please order CA3108E...F80 (without O-ring), CA3108E...F183 (without O-ring).

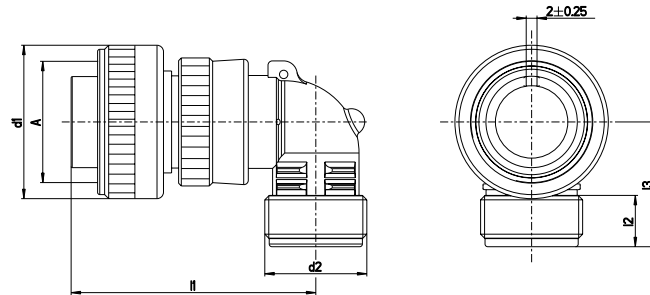


| Part No. CA<br>(pin insert*) | A<br>Thread     | d1<br>max. | d2 <sup>1</sup> | I1<br>max. | I2<br>max. | I3<br>max. | I4<br>max. |
|------------------------------|-----------------|------------|-----------------|------------|------------|------------|------------|
| CA3108E10SL-**p***           | 5/8-24UNEF-2B   | 24,1       | 6,5             | 45,0       | 42,0       | 22,7       | 100        |
| CA3108E12S-**p***            | 3/4-20UNEF-2B   | 25,8       | 6,5             | 45,0       | 42,0       | 22,7       | 100        |
| CA3108E14S-**p***            | 7/8-20UNEF-2B   | 28,8       | 9,0             | 47,0       | 42,0       | 27,5       | 100        |
| CA3108E16S-**p***            | 1-20UNEF-2B     | 31,8       | 11,0            | 48,0       | 45,0       | 30,0       | 100        |
| CA3108E16-**p***             | 1-20UNEF-2B     | 31,8       | 11,0            | 48,0       | 45,0       | 30,0       | 100        |
| CA3108E18-**p***             | 1-1/8-18UNEF-2B | 34,1       | 14,2            | 58,0       | 53,0       | 33,0       | 100        |
| CA3108E20-**p***             | 1-1/4-18UNEF-2B | 37,4       | 15,8            | 61,0       | 53,0       | 37,5       | 100        |
| CA3108E22-**p***             | 1-3/8-18UNEF-2B | 40,5       | 15,8            | 61,0       | 53,0       | 37,5       | 100        |
| CA3108E24-**p***             | 1-1/2-18UNEF-2B | 43,8       | 21,4            | 66,0       | 58,0       | 43,3       | 100        |
| CA3108E28-**p***             | 1-3/4-18UNS-2B  | 50,2       | 21,4            | 66,0       | 58,0       | 43,3       | 100        |
| CA3108E32-**p***             | 2-18UNS-2B      | 56,4       | 26,7            | 72,0       | 66,0       | 51,7       | 110        |
| CA3108E36-**p***             | 2-1/4-16UN-2B   | 62,8       | 31,7            | 75,0       | 69,0       | 58,0       | 110        |

<sup>1</sup> max. cable dia

### CA3108R

CA3108R are right angle plugs which mate with receptacles CA3100, CA3101, CA3102, CA02L, CA20E and CA20L. CA 3108R comes without cable clamp. If crimp version is required please order CA3108R...F80 (with O-ring), CA3108R...F183 (with O-ring). It mates with receptacles 3100, 3102, CA02L, CA20L and 3101 plugs.



| Part No. CA<br>(pin insert*) | A<br>Thread     | d1<br>max. | d2<br>Thread     | I1<br>max. | I2<br>min. | I3<br>max. | I4<br>max. |
|------------------------------|-----------------|------------|------------------|------------|------------|------------|------------|
| CA3108R10SL-**p***           | 5/8-24UNEF-2B   | 24,1       | 5/8-24UNEF-2A    | 45,0       | 9,4        | 22,0       |            |
| CA3108R12S-**p***            | 3/4-20UNEF-2B   | 25,8       | 5/8-20UNEF-2A    | 45,0       | 9,4        | 22,0       |            |
| CA3108R14S-**p***            | 7/8-20UNEF-2B   | 28,8       | 3/4-20UNEF-2A    | 47,0       | 9,4        | 24,0       |            |
| CA3108R16S-**p***            | 1-20UNEF-2B     | 31,8       | 7/8-20UNEF-2A    | 48,0       | 9,4        | 25,0       |            |
| CA3108R16-**p***             | 1-20UNEF-2B     | 31,8       | 7/8-20UNEF-2A    | 48,0       | 9,4        | 25,0       |            |
| CA3108R18-**p***             | 1-1/8-18UNEF-2B | 34,1       | 1-20UNEF-2A      | 58,0       | 9,4        | 27,0       |            |
| CA3108R20-**p***             | 1-1/4-18UNEF-2B | 37,4       | 1-3/16-18UNEF-2A | 61,0       | 9,4        | 29,0       |            |
| CA3108R22-**p***             | 1-3/8-18UNEF-2B | 40,5       | 1-3/16-18UNEF-2A | 61,0       | 9,4        | 30,0       |            |
| CA3108R24-**p***             | 1-1/2-18UNEF-2B | 43,8       | 1-7/16-18UNEF-2A | 66,0       | 9,4        | 32,0       |            |
| CA3108R28-**p***             | 1-3/4-18UNS-2B  | 50,2       | 1-7/16-18UNEF-2A | 66,0       | 9,4        | 34,0       |            |
| CA3108R32-**p***             | 2-18UNS-2B      | 56,4       | 1-3/4-18UNS-2A   | 72,0       | 11,0       | 39,5       |            |
| CA3108R36-**p***             | 2-1/4-16UN-2B   | 62,8       | 2-18UNS-2A       | 75,0       | 12,6       | 45,0       |            |

\*For socket inserts substitute "P" with "S" \*\*Add contact arrangement number; see pages 10-22 \*\*\* Add modification code; see page 8

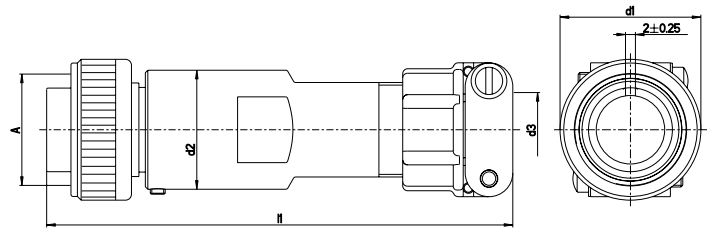
<sup>1</sup> max. cable dia

This document solely applies to European manufactured CA Threaded products  
Dimensions shown in mm | Specifications and dimensions subject to change

**STRAIGHT PLUG ENFORCED BACKSHELL, THROUGH-BULKHEAD CLASS E, R**

**CA06EA**

CA06EA is a straight plug with adapter for gland nut sealing and cable clamp. It is designed for usage with jacketed cable. It provides cable strain relief, individual wire sealing plus sealing of the outer cable jacket. It has an O-ring under the coupling nut. It mates with receptacles 3100, 3102, CA02L, CA20E, CA20L and 3101 plugs



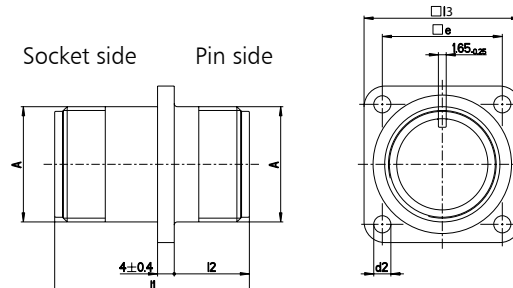
| Part No. CA<br>(pin insert*) | A<br>Thread     | d1<br>max. | d2<br>max. | d3 <sup>1</sup> | l1<br>max. |
|------------------------------|-----------------|------------|------------|-----------------|------------|
| CA06EA14S-**p***             | 7/8-20UNEF-2B   | 28,8       | 24,2       | 11,2            | 102,0      |
| CA06EA16S-**p***             | 1-20UNEF-2B     | 31,8       | 27,2       | 13,5            | 102,0      |
| CA06EA16-**p***              | 1-20UNEF-2B     | 31,8       | 27,2       | 13,5            | 112,0      |
| CA06EA18-**p***              | 1-1/8-18UNEF-2B | 34,1       | 32,2       | 15,9            | 112,0      |
| CA06EA20-**p***              | 1-1/4-18UNEF-2B | 37,4       | 35,2       | 19,1            | 112,0      |
| CA06EA22-**p***              | 1-3/8-18UNEF-2B | 40,5       | 37,2       | 19,1            | 112,0      |
| CA06EA24-**p***              | 1-1/2-18UNEF-2B | 43,6       | 41,2       | 23,9            | 115,0      |
| CA06EA28-**p***              | 1-3/4-18UNS-2B  | 50,2       | 47,2       | 23,9            | 115,0      |
| CA06EA32-**p***              | 2-18UNS-2B      | 56,4       | 53,2       | 31,8            | 120,0      |
| CA06EA36-**p***              | 2-1/4-16UN-2B   | 62,8       | 59,2       | 34,9            | 120,0      |

<sup>1</sup> max. cable dia

**THRU-BULKHEAD**

**TBF**

TBF designates a thru-bulkhead featured by a double face construction allowing mating from both ends. It mates with 3106 and 3108 plugs.



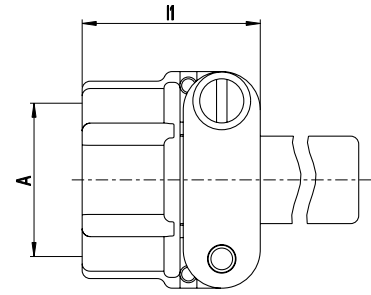
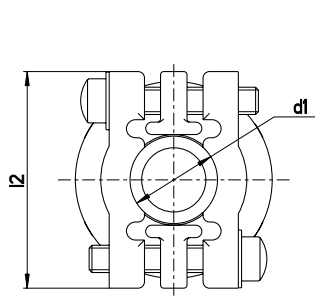
| Part No. TBF       | A<br>Thread     | l1<br>max. | l2<br>+0,4 | l3<br>±0,3 | e<br>±0,1 | d2<br>+0,2/-0,1 |
|--------------------|-----------------|------------|------------|------------|-----------|-----------------|
| TBF10SL-**-**PS*** | 5/8-24UNEF-2A   | 40,1       | 14,2       | 25,4       | 18,2      | 3,1             |
| TBF14S-**-**PS***  | 7/8-20UNEF-2A   | 40,1       | 14,2       | 30,0       | 23,0      | 3,1             |
| TBF16S-**-**PS***  | 1-20UNEF-2A     | 40,1       | 14,2       | 32,5       | 24,6      | 3,1             |
| TBF16-**-**PS***   | 1-20UNEF-2A     | 54,4       | 19,0       | 32,5       | 29,4      | 3,1             |
| TBF18-**-**PS***   | 1-1/8-18UNEF-2A | 54,4       | 19,0       | 35,0       | 31,8      | 3,1             |
| TBF20-**-**PS***   | 1-1/4-18UNEF-2A | 54,4       | 19,0       | 38,0       | 29,4      | 3,1             |
| TBF22-**-**PS***   | 1-3/8-18UNEF-2A | 54,4       | 19,0       | 41,0       | 31,8      | 3,1             |
| TBF24-**-**PS***   | 1-1/2-18UNEF-2A | 54,4       | 20,6       | 44,5       | 34,9      | 3,7             |
| TBF28-**-**PS***   | 1-3/4-18UNS-2A  | 54,4       | 20,6       | 50,8       | 39,7      | 3,7             |
| TBF32-**-**PS***   | 2-18UNS-2A      | 54,4       | 22,2       | 57,0       | 44,5      | 4,4             |
| TBF36-**-**PS***   | 2-1/4-16UN-2A   | 54,4       | 22,2       | 63,5       | 49,2      | 4,4             |

\*For socket inserts substitute "P" with "S" \*\*Add contact arrangement number; see pages 10-22 \*\*\* Add modification code; see page 8

## ACCESSORIES

### Cable Clamp

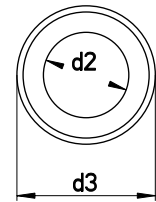
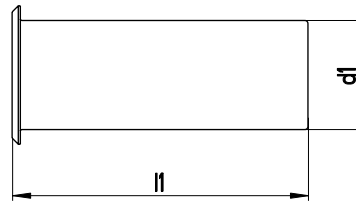
These cable clamps can be used with or without bushings. Bushings need to be ordered separately, please see table below.. It is utilized to complete the F class plugs and receptacles on page 25, 28, 33 and CA3108 90° plug on page 35.



| Part No. CA | Shell size   | A<br>Thread      | d1<br>max | l1<br>max | l2<br>max |
|-------------|--------------|------------------|-----------|-----------|-----------|
| VG95234KK 4 | 10S, 12S, 12 | 5/8-24NEF-2B     | 7,9       | 20,8      | 22,5      |
| VG95234KK 6 | 14S, 14      | 3/4-20UNEF-2B    | 11,1      | 22,4      | 27,4      |
| VG95234KK 8 | 16S, 16      | 7/8-20UNEF-2B    | 14,2      | 24,0      | 29,8      |
| VG95234KK10 | 18           | 1-20UNEF-2B      | 15,8      | 24,0      | 32,2      |
| VG95234KK12 | 20, 22       | 1-3/16-18UNEF-2B | 19,0      | 24,0      | 37,4      |
| VG95234KK16 | 24, 28       | 1-7/16-18UNEF-2B | 23,7      | 26,4      | 43,5      |
| VG95234KK20 | 32           | 1-3/4-18NS-2B    | 31,8      | 28,0      | 51,7      |
| VG95234KK24 | 36           | 2-18NS-2B        | 34,6      | 29,6      | 57,8      |

### TELESCOPING BUSHING

Telescoping bushings (used with cable clamp) keep dirt, moisture out of backshell. Taping or wrapping wires is eliminated since bushing protects wires going through clamp. Combination of bushings may be used to decrease cable entry diameter to improve sealing. Material is Polychloroprene.



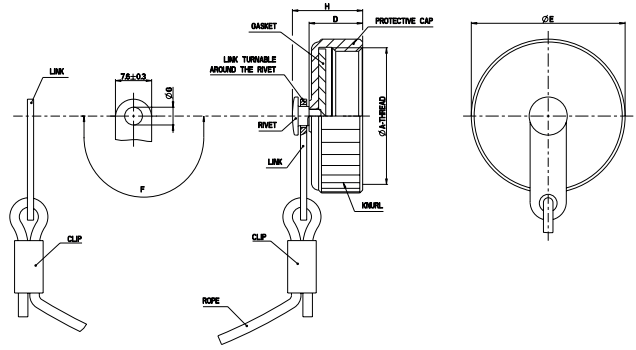
| Shell size | part no.     | d1   | d2   | d3   | l    | Weight<br>g |
|------------|--------------|------|------|------|------|-------------|
| 10SL       | 012-8552-000 | 8.0  | 6.6  | 9.9  | 70.0 | 4           |
| 14S        | 012-8554-000 | 10.9 | 9.1  | 12.7 | 67.0 | 5           |
| 16S, 16    | 012-0218-000 | 14.0 | 11.1 | 19.0 | 64.0 | 6           |
| 18         | 012-0219-000 | 15.7 | 14.3 | 22.0 | 60.0 | 4           |
| 20, 22     | 012-0220-000 | 18.8 | 15.9 | 26.9 | 57.0 | 7           |
| 24, 28     | 012-8556-000 | 23.6 | 21.5 | 33.3 | 54.0 | 13          |
| 32         | 012-8558-000 | 31.5 | 26.8 | 40.4 | 51.0 | 26          |
| 36         | 012-0223-000 | 34.7 | 31.8 | 46.8 | 48.0 | 30          |
| 24.28      | 012-8555-000 | 21.2 | 16.6 | 26.9 | 57.0 | 13          |
| 32         | 012-8557-000 | 26.5 | 21.5 | 33.3 | 54.0 | 26          |

| Shell size | Combination of:               |
|------------|-------------------------------|
| 24, 28     | 012-8556-000 and 012-8555-000 |
| 32         | 012-8558-000 and 012-8557-000 |
| 36         | 012-0223-000 and 012-8558-000 |

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Dimensions shown in mm | Specifications and dimensions subject to change

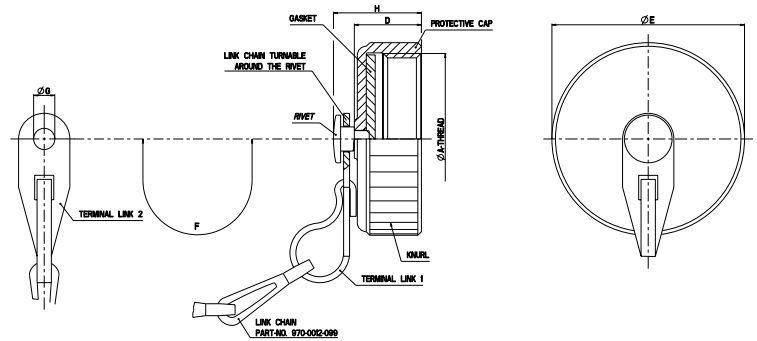
## ACCESSORIES

### METAL PROTECTING CAPS FOR RECEPTACLES WITH CORD



| Shell Size | Order designation |               |               |               | ØA Thread       | D max. | ØE max. | F ca. | ØG +0,4 | H max. |
|------------|-------------------|---------------|---------------|---------------|-----------------|--------|---------|-------|---------|--------|
|            | A66               | A232          | A240          | A241          |                 |        |         |       |         |        |
| 10SL       | CA121003-801      | CA121003-1621 | CA121003-1681 | CA121003-1721 | 5/8-24UNEF-2B   | 11.7   | 20.2    | 100   | 3.4     | 16.0   |
| 12S        | CA121003-802      | CA121003-1622 | CA121003-1682 | CA121003-1722 | 3/4-20UNEF-2B   | 11.7   | 23.4    | 115   | 3.4     | 16.0   |
| 14S        | CA121003-803      | CA121003-1623 | CA121003-1683 | CA121003-1723 | 7/8-20UNEF-2B   | 11.7   | 26.6    | 115   | 3.4     | 16.0   |
| 16S, 16    | CA121003-804      | CA121003-1624 | CA121003-1684 | CA121003-1724 | 1-20UNEF-2B     | 11.7   | 29.8    | 115   | 3.4     | 16.0   |
| 18         | CA121003-806      | CA121003-1626 | CA121003-1686 | CA121003-1726 | 1 1/8-18UNEF-2B | 11.7   | 32.9    | 115   | 3.4     | 16.0   |
| 20         | CA121003-807      | CA121003-1627 | CA121003-1687 | CA121003-1727 | 1 1/4-18UNEF-2B | 11.7   | 36.1    | 125   | 3.4     | 16.0   |
| 22         | CA121003-808      | CA121003-1628 | CA121003-1688 | CA121003-1728 | 1 3/8-18UNEF-2B | 11.7   | 39.4    | 125   | 3.4     | 16.0   |
| 24         | CA121003-809      | CA121003-1629 | CA121003-1689 | CA121003-1729 | 1 1/2-18UNEF-2B | 11.7   | 42.6    | 140   | 4.2     | 16.0   |
| 28         | CA121003-810      | CA121003-1630 | CA121003-1690 | CA121003-1730 | 1 3/4-18UNS-2B  | 13.3   | 48.9    | 200   | 4.2     | 18.0   |
| 32         | CA121003-811      | CA121003-1631 | CA121003-1691 | CA121003-1731 | 2-18UNS-2B      | 13.3   | 55.3    | 200   | 4.6     | 18.0   |
| 36         | CA121003-812      | CA121003-1632 | CA121003-1692 | CA121003-1732 | 2 1/4-16UN-2B   | 13.3   | 61.6    | 200   | 4.6     | 18.0   |

### METAL PROTECTING CAPS FOR RECEPTACLES WITH CHAIN

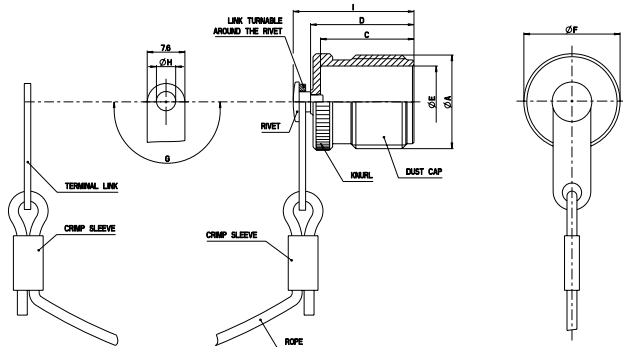


| Shell Size | Order designation |              |              |              | ØA Thread       | D max. | ØE max. | F ca. | ØG +0,4 | H max. |
|------------|-------------------|--------------|--------------|--------------|-----------------|--------|---------|-------|---------|--------|
|            | A66               | A232         | A240         | A241         |                 |        |         |       |         |        |
| 10SL       | CA2209-5101       | CA121003-641 | CA121003-681 | CA121003-721 | 5/8-24UNEF-2B   | 11.7   | 20.2    | 100   | 3.4     | 16.0   |
| 12S        | CA2209-5102       | CA121003-642 | CA121003-682 | CA121003-722 | 3/4-20UNEF-2B   | 11.7   | 23.4    | 115   | 3.4     | 16.0   |
| 14S        | CA2209-5103       | CA121003-643 | CA121003-683 | CA121003-723 | 7/8-20UNEF-2B   | 11.7   | 26.6    | 115   | 3.4     | 16.0   |
| 16S, 16    | CA2209-5104       | CA121003-644 | CA121003-684 | CA121003-724 | 1-20UNEF-2B     | 11.7   | 29.8    | 115   | 3.4     | 16.0   |
| 18         | CA2209-5105       | CA121003-646 | CA121003-686 | CA121003-725 | 1 1/8-18UNEF-2B | 11.7   | 32.9    | 115   | 3.4     | 16.0   |
| 20         | CA2209-5106       | CA121003-647 | CA121003-687 | CA121003-726 | 1 1/4-18UNEF-2B | 11.7   | 36.1    | 125   | 3.4     | 16.0   |
| 22         | CA2209-5107       | CA121003-648 | CA121003-688 | CA121003-727 | 1 3/8-18UNEF-2B | 11.7   | 39.4    | 125   | 3.4     | 16.0   |
| 24         | CA2209-5108       | CA121003-649 | CA121003-689 | CA121003-728 | 1 1/2-18UNEF-2B | 11.7   | 42.6    | 140   | 4.2     | 16.0   |
| 28         | CA2209-5109       | CA121003-650 | CA121003-690 | CA121003-729 | 1 3/4-18UNS-2B  | 13.3   | 48.9    | 200   | 4.2     | 18.0   |
| 32         | CA2209-5110       | CA121003-651 | CA121003-691 | CA121003-730 | 2-18UNS-2B      | 13.3   | 55.3    | 200   | 4.6     | 18.0   |
| 36         | CA2209-5111       | CA121003-652 | CA121003-692 | CA121003-731 | 2 1/4-16UN-2B   | 13.3   | 61.6    | 200   | 4.6     | 18.0   |

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 Dimensions shown in mm | Specifications and dimensions subject to change

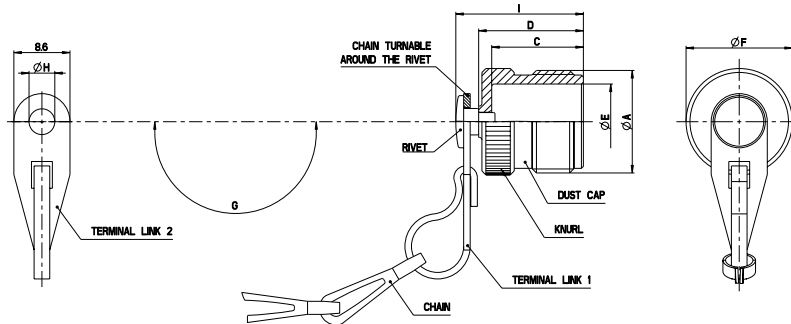
## ACCESSORIES

### METAL PROTECTING CAPS FOR PLUGS WITH CORD



| Shell Size | Order designation |               |               |               | ØA<br>Thread    | C<br>±0,5 | D<br>max. | ØE<br>+0,2 | ØF<br>max. | G<br>ca. | ØH<br>+0,4 | I<br>max. |
|------------|-------------------|---------------|---------------|---------------|-----------------|-----------|-----------|------------|------------|----------|------------|-----------|
|            | A66               | A232          | A240          | A241          |                 |           |           |            |            |          |            |           |
| 10SL       | CA121004-801      | CA121004-1621 | CA121004-1681 | CA121004-1721 | 5/8-24UNEF-2A   | 14.1      | 16.3      | 11.5       | 16.7       | 100      | 3.8        | 20.5      |
| 12S        | CA121004-802      | CA121004-1622 | CA121004-1682 | CA121004-1722 | 3/4-20UNEF-2A   | 18.9      | 21.0      | 14.4       | 19.8       | 115      | 3.8        | 25.0      |
| 14S        | CA121004-803      | CA121004-1623 | CA121004-1683 | CA121004-1723 | 7/8-20UNEF-2A   | 18.9      | 21.0      | 17.6       | 23.0       | 115      | 3.8        | 25.0      |
| 16S, 16    | CA121004-804      | CA121004-1624 | CA121004-1684 | CA121004-1724 | 1-20UNEF-2A     | 18.9      | 21.0      | 20.8       | 26.2       | 115      | 3.8        | 25.0      |
| 18         | CA121004-806      | CA121004-1626 | CA121004-1686 | CA121004-1726 | 1 1/8-18UNEF-2A | 18.9      | 21.0      | 23.9       | 29.4       | 115      | 3.8        | 25.0      |
| 20         | CA121004-807      | CA121004-1627 | CA121004-1687 | CA121004-1727 | 1 1/4-18UNEF-2A | 18.9      | 21.0      | 27.1       | 32.5       | 125      | 4.6        | 25.0      |
| 22         | CA121004-808      | CA121004-1628 | CA121004-1688 | CA121004-1728 | 1 3/8-18UNEF-2A | 18.9      | 21.0      | 30.3       | 35.7       | 125      | 4.6        | 25.0      |
| 24         | CA121004-809      | CA121004-1629 | CA121004-1689 | CA121004-1729 | 1 1/2-18UNEF-2A | 18.9      | 21.0      | 33.5       | 38.9       | 140      | 4.6        | 25.0      |
| 28         | CA121004-810      | CA121004-1630 | CA121004-1690 | CA121004-1730 | 1 3/4-18UNS-2A  | 18.9      | 21.0      | 39.0       | 45.2       | 200      | 4.6        | 25.0      |
| 32         | CA121004-811      | CA121004-1631 | CA121004-1691 | CA121004-1731 | 2-18UNS-2A      | 18.9      | 21.0      | 45.4       | 51.6       | 200      | 5.4        | 25.0      |
| 36         | CA121004-812      | CA121004-1632 | CA121004-1692 | CA121004-1732 | 2 1/4-16UN-2A   | 18.9      | 21.0      | 50.9       | 57.9       | 200      | 5.4        | 25.0      |

### METAL PROTECTING CAPS FOR PLUGS WITH CHAIN



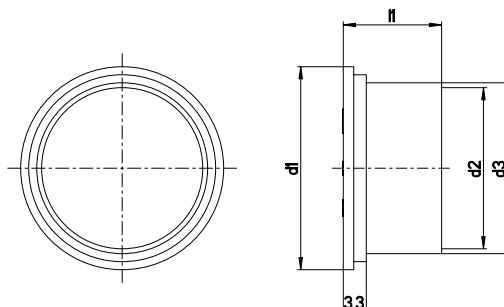
| Shell Size | Order designation |              |              |              | ØA<br>Thread    | C<br>±0,5 | D<br>max. | ØE<br>+0,2 | ØF<br>max. | G<br>ca. | ØH<br>+0,4 | I<br>max. |
|------------|-------------------|--------------|--------------|--------------|-----------------|-----------|-----------|------------|------------|----------|------------|-----------|
|            | A66               | A232         | A240         | A241         |                 |           |           |            |            |          |            |           |
| 10SL       | CA17530-5101      | CA121004-641 | CA121004-681 | CA121004-721 | 5/8-24UNEF-2A   | 14.1      | 16.3      | 11.5       | 16.7       | 100      | 3.8        | 20.5      |
| 12S        | CA17530-5102      | CA121004-642 | CA121004-682 | CA121004-722 | 3/4-20UNEF-2A   | 18.9      | 21.0      | 14.4       | 19.8       | 115      | 3.8        | 25.0      |
| 14S        | CA17530-5103      | CA121004-643 | CA121004-683 | CA121004-723 | 7/8-20UNEF-2A   | 18.9      | 21.0      | 17.6       | 23.0       | 115      | 3.8        | 25.0      |
| 16S, 16    | CA17530-5104      | CA121004-644 | CA121004-684 | CA121004-724 | 1-20UNEF-2A     | 18.9      | 21.0      | 20.8       | 26.2       | 115      | 3.8        | 25.0      |
| 18         | CA17530-5105      | CA121004-646 | CA121004-686 | CA121004-726 | 1 1/8-18UNEF-2A | 18.9      | 21.0      | 23.9       | 29.4       | 115      | 3.8        | 25.0      |
| 20         | CA17530-5106      | CA121004-647 | CA121004-687 | CA121004-727 | 1 1/4-18UNEF-2A | 18.9      | 21.0      | 27.1       | 32.5       | 125      | 4.6        | 25.0      |
| 22         | CA17530-5107      | CA121004-648 | CA121004-688 | CA121004-728 | 1 3/8-18UNEF-2A | 18.9      | 21.0      | 30.3       | 35.7       | 125      | 4.6        | 25.0      |
| 24         | CA17530-5108      | CA121004-649 | CA121004-689 | CA121004-729 | 1 1/2-18UNEF-2A | 18.9      | 21.0      | 33.5       | 38.9       | 140      | 4.6        | 25.0      |
| 28         | CA17530-5109      | CA121004-650 | CA121004-690 | CA121004-730 | 1 3/4-18UNS-2A  | 18.9      | 21.0      | 39.0       | 45.2       | 200      | 4.6        | 25.0      |
| 32         | CA17530-5110      | CA121004-651 | CA121004-691 | CA121004-731 | 2-18UNS-2A      | 18.9      | 21.0      | 45.4       | 51.6       | 200      | 5.4        | 25.0      |
| 36         | CA17530-5111      | CA121004-652 | CA121004-692 | CA121004-732 | 2 1/4-16UN-2A   | 18.9      | 21.0      | 50.9       | 57.9       | 200      | 5.4        | 25.0      |

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## ACCESSORIES

### PROTECTIVE CAPS PLASTIC\*

Material: Polyethene  
Color: Red

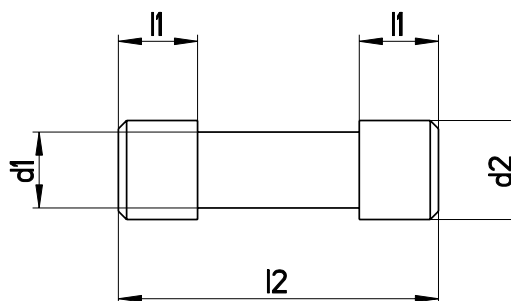


| Part No.     | CA<br>3100/3101/3102 | CA<br>3106/3108 | d1<br>max. | l1<br>max. | d2<br>±0,2 | d3<br>max. | Part No.     | CA<br>3100/3101/3102 | CA<br>3106/3108 | d1<br>max. | l1<br>max. | d2<br>±0,2 | d3<br>max. |
|--------------|----------------------|-----------------|------------|------------|------------|------------|--------------|----------------------|-----------------|------------|------------|------------|------------|
| 025-0460-000 | 10SL                 |                 | 21,5       | 17,8       | 15,2       | 16,9       | 025-0468-000 | 20                   |                 | 38,1       | 17,8       | 31,5       | 33,4       |
| 025-0477-000 |                      | 10SL            | 20,4       | 12,5       | 14,0       | 15,7       | 025-0469-000 | 22                   |                 | 39,1       | 14,6       | 32,6       | 34,2       |
| 025-0478-000 |                      | 12S, 12         | 23,1       | 14,6       | 16,8       | 18,5       | 025-0486-000 |                      | 22              | 41,4       | 17,8       | 34,5       | 36,5       |
| 025-0462-000 | 12S, 12              |                 | 24,7       | 17,8       | 18,5       | 20,2       | 025-0487-000 |                      | 24              | 42,3       | 14,6       | 35,5       | 37,4       |
| 025-0479-000 |                      | 14S, 14         | 26,3       | 14,6       | 19,9       | 21,6       | 025-0510-000 | 24                   |                 | 44,2       | 17,8       | 37,8       | 39,8       |
| 025-0463-000 | 14S, 14              |                 | 27,8       | 17,8       | 21,6       | 23,3       | 025-0488-000 |                      | 28              | 48,4       | 14,6       | 41,6       | 43,5       |
| 025-0480-000 |                      | 16S, 16         | 29,5       | 14,6       | 23,1       | 24,8       | 025-0501-000 | 28                   |                 | 50,4       | 17,8       | 43,9       | 45,9       |
| 025-0498-000 | 16S, 16              |                 | 31,5       | 17,8       | 25,1       | 26,8       | 025-0489-000 |                      | 32              | 54,8       | 14,6       | 48,0       | 49,9       |
| 025-0484-000 |                      | 18              | 32,8       | 14,6       | 25,9       | 27,8       | 025-0502-000 | 32                   |                 | 57,0       | 17,8       | 50,3       | 52,2       |
| 025-0507-000 | 18                   |                 | 34,7       | 17,8       | 28,2       | 30,1       | 025-0490-000 |                      | 36              | 61,3       | 14,6       | 54,2       | 56,3       |
| 025-0467-000 |                      | 20              | 35,4       | 17,8       | 28,3       | 30,2       | 025-0503-000 | 36                   |                 | 63,4       | 17,8       | 56,6       | 58,6       |

\*Dust caps for the connector mating side only

### WIRE HOLE FILLERS

Where contacts are not engaged, the contact cavities are to be closed with wire hole fillers. Wire hole fillers are inserted into the rear end of the grommet (see CA-B Assembly instruction available on the ITT webpage [www.ittcannon.com](http://www.ittcannon.com))



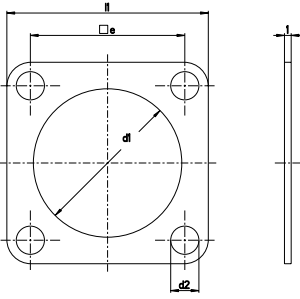
| For contact size |        | d1   | d2   | l1   | l2   | Part number  | Color  |
|------------------|--------|------|------|------|------|--------------|--------|
| AWG              | metric | ±0,1 | ±0,2 | ±0,1 | ±0,3 |              |        |
| 20               | 10     | 2,3  | 3,0  | 2,4  | 9,7  | 225-1000-000 | red    |
| 16S              | 15S    | 2,8  | 3,7  | 1,5  | 4,8  | 225-8510-000 | nature |
| 16               | 15     | 2,8  | 3,7  | 3,2  | 11,9 | 225-0017-000 | blue   |
| 12               | 25     | 3,7  | 4,6  | 3,2  | 11,9 | 225-0018-000 | yellow |
| 8                | 60/100 | 5,0  | 5,8  | 3,2  | 11,9 | 225-0019-000 | white  |
| 4                | 160    | 7,6  | 8,5  | 3,2  | 11,9 | 225-8502-000 | green  |
| 0                | 500    | 12,8 | 13,5 | 3,2  | 11,9 | 225-8503-000 | black  |

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## ACCESSORIES

### SEALING GASKETS

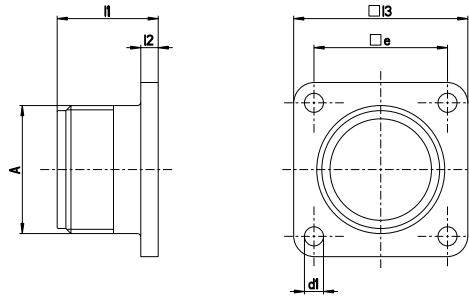
For front and rear panel mounting. These sealing gaskets made of neoprene are used with flange receptacles for sealing purposes between the shell and the flange.



| Part No.     | Shell size | d1<br>+0,2 | d2<br>+0,2 | l1<br>±0,3 | e<br>±0,1 |
|--------------|------------|------------|------------|------------|-----------|
| 075-8512-000 | 10SL       | 15,7       | 4,2        | 25,4       | 18,2      |
| 075-8513-000 | 12S        | 18,9       | 4,2        | 28,0       | 20,6      |
| 075-8514-000 | 14S        | 22,1       | 4,2        | 30,0       | 23,0      |
| 075-8515-000 | 16S,16     | 25,3       | 4,2        | 32,5       | 24,6      |
| 075-8516-000 | 18         | 28,4       | 4,2        | 35,0       | 27,0      |
| 075-8517-000 | 20         | 31,6       | 4,2        | 38,0       | 29,4      |
| 075-8518-000 | 22         | 34,8       | 4,2        | 41,0       | 31,8      |
| 075-8519-000 | 24         | 38,0       | 4,2        | 44,5       | 34,9      |
| 075-8520-000 | 28         | 44,3       | 5,1        | 50,8       | 39,7      |
| 075-8521-000 | 32         | 50,7       | 5,1        | 57,0       | 44,5      |
| 075-8522-000 | 36         | 57,0       | 5,1        | 63,5       | 49,2      |

### Dummy Receptacle

The dummy receptacle holds 3106 or 3108 plugs when not in use.



| Part No. CA  | for shell size | A<br>Thread     | l1<br>max | l2<br>±0,2 | l3<br>±0,7 | d1<br>+0,2/-0,1 | e<br>±0,1 |
|--------------|----------------|-----------------|-----------|------------|------------|-----------------|-----------|
| 248-0089-001 | 10SL           | 5/8-24UNEF-2B   | 17,2      | 2,4        | 25,4       | 3,1             | 18,2      |
| 248-0774-000 | 12S            | 3/4-20UNEF-2B   | 17,2      | 2,4        | 28,7       | 3,1             | 20,6      |
| 248-0093-001 | 14S            | 7/8-20UNEF-2B   | 17,9      | 2,4        | 30,1       | 3,1             | 23,0      |
| 248-0095-001 | 16S            | 1-20UNEF-2B     | 17,2      | 2,4        | 32,5       | 3,1             | 24,6      |
| 248-0094-001 | 16             | 1-20UNEF-2B     | 22,0      | 2,4        | 32,5       | 3,1             | 24,6      |
| 248-0096-001 | 18             | 1-1/8-18UNEF-2B | 22,5      | 3,0        | 34,9       | 3,1             | 27,0      |
| 248-0772-000 | 20             | 1-1/4-18UNEF-2B | 22,5      | 3,0        | 38,0       | 3,1             | 29,4      |
| 248-0773-000 | 22             | 1-3/8-18UNEF-2B | 22,5      | 3,0        | 41,3       | 3,1             | 31,8      |
| 248-0099-001 | 24             | 1-1/2-18UNEF-2B | 24,1      | 3,0        | 44,4       | 3,7             | 34,9      |
| 248-0100-001 | 28             | 1-3/4-18UNS-2B  | 24,1      | 3,0        | 50,8       | 3,7             | 39,7      |
| 248-0101-001 | 32             | 2-18UNS-2B      | 27,0      | 4,3        | 57,1       | 4,4             | 44,5      |
| 248-0102-001 | 36             | 2-1/4-16UN-2B   | 27,0      | 4,3        | 63,4       | 4,4             | 49,2      |

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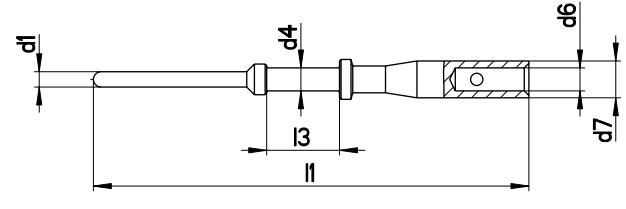
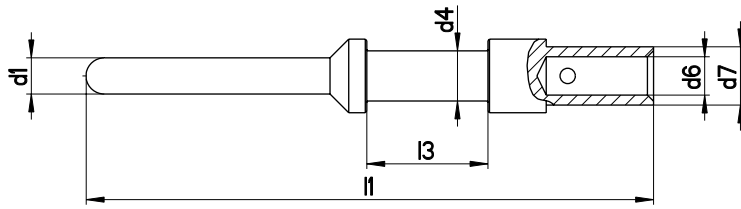
## ACCESSORIES

### CONTACTS

Standard contacts and contacts with reduced termination diameter

SIZE 15S/16S, 15/16, 25/12, 60/100/8, 160/4, 500/0

SIZE 10/20



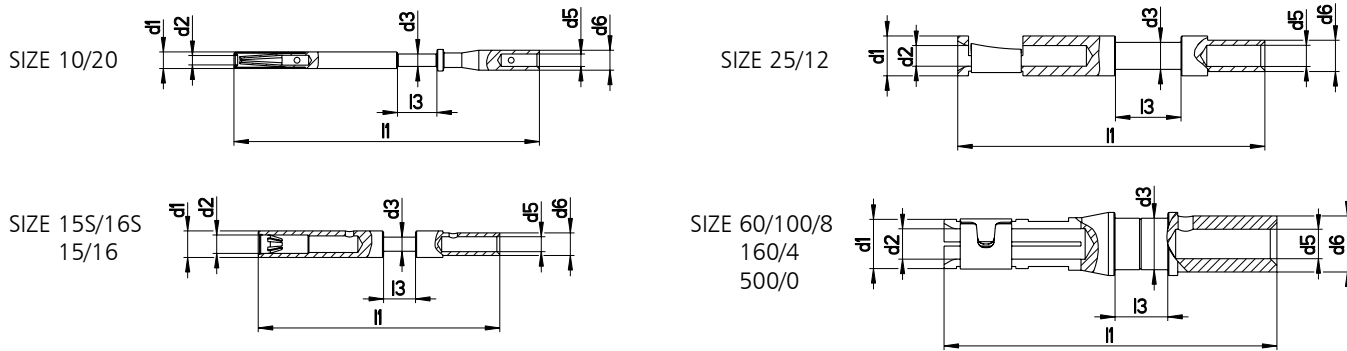
#### Pin contacts Finish: **A36**–silver plated and passivated/**A176**–gold plated

| Contact size | Termination size |       | Part no. with finish |              | d1<br>-0,05 | d4    | d6   | d7    | l1<br>± 0,15 | l3<br>± 0,5 | Color code |
|--------------|------------------|-------|----------------------|--------------|-------------|-------|------|-------|--------------|-------------|------------|
|              | mm <sup>2</sup>  | AWG   | A36                  | A176         |             |       |      |       |              |             |            |
| 10/20        | 0,5–1,0          | 20/18 | 030-8585-000         | 030-8585-006 | 1,04        | 1,50  | 1,50 | 2,40  | 28,4         | 4,75        | –          |
|              | 0,2–0,4          | 26/22 | 030-8585-010         | 030-8585-016 | 1,04        | 1,50  | 0,90 | 2,40  | 28,4         | 4,75        | blue       |
| 15S/16S      | 0,75–1,5         | 18/16 | 030-8586-000         | 030-8586-006 | 1,60        | 1,75  | 1,75 | 2,75  | 27,4         | 3,85        | –          |
|              | 0,3–0,6          | 22/20 | 330-8744-000         | 330-8744-006 | 1,60        | 1,75  | 1,20 | 2,75  | 27,4         | 3,85        | red        |
|              | 0,14–0,38        | 22/26 | 030-8586-010         | 030-8586-016 | 1,60        | 1,75  | 0,90 | 2,75  | 27,4         | 3,85        | blue       |
| 15/16        | 0,75–1,5         | 18/16 | 030-8587-000         | 030-8587-006 | 1,60        | 1,75  | 1,75 | 2,75  | 31,4         | 7,90        | –          |
|              | 0,3–0,6          | 22/20 | 330-8659-000         | 030-8559-006 | 1,60        | 1,75  | 1,20 | 2,75  | 31,4         | 7,90        | red        |
|              | 0,14–0,38        | 22/26 | 030-8587-030         | 030-8587-036 | 1,60        | 1,75  | 0,90 | 2,75  | 31,4         | 7,90        | blue       |
| 25/12        | 2,0–3,0          | 14/12 | 030-8588-000         | 030-8588-006 | 2,40        | 3,30  | 2,50 | 3,80  | 37,0         | 7,90        | –          |
|              | 0,75–1,5         | 18/16 | 030-8588-010         | 030-8588-016 | 2,40        | 3,30  | 1,75 | 3,40  | 37,0         | 7,90        | black      |
|              | 4,0              | –     | 030-8588-054         |              | 2,40        | 3,30  | 2,80 | 3,80  | 37,0         | 7,90        | –          |
| 60/100/8     | –                | 8     | 030-8612-000         | 030-8612-006 | 3,60        | 6,25  | 4,55 | 6,80  | 39,6         | 6,35        | –          |
|              | 6,0              | 10    | 030-8589-000         |              | 3,60        | 6,25  | 3,50 | 6,80  | 39,6         | 6,35        | yellow     |
|              | 10,0             | –     | 030-8590-000         |              | 3,60        | 6,25  | 4,80 | 6,80  | 39,6         | 6,35        | –          |
|              | 2,0–3,0          | 14/12 | 030-8612-010         |              | 3,60        | 6,25  | 2,50 | 6,80  | 39,6         | 6,35        | green      |
| 160/4        | –                | 4     | 030-8613-000         |              | 5,75        | 9,55  | 7,10 | 9,55  | 39,6         | 6,35        | –          |
|              | 16,0             | –     | 030-8591-000         |              | 5,75        | 9,55  | 6,20 | 9,55  | 39,6         | 6,35        | –          |
|              | 10,0             | –     | 030-8591-020         |              | 5,75        | 9,55  | 4,80 | 9,55  | 39,6         | 6,35        | –          |
|              | –                | 6     | 030-8613-010         |              | 5,75        | 9,55  | 5,70 | 9,55  | 39,6         | 6,35        | brown      |
| 500/0        | –                | 0     | 030-8614-000         |              | 9,10        | 13,55 | 11,5 | 14,35 | 41,0         | 6,35        | –          |
|              | 50,0             | –     | 030-8592-000         |              | 9,10        | 13,55 | 10,7 | 14,35 | 41,0         | 6,35        | –          |
|              | 25,0             | 4     | 030-8614-010         |              | 9,10        | 13,55 | 7,60 | 14,35 | 41,0         | 6,35        | white      |
|              | 35,0             | 2     | 030-8614-020         |              | 9,10        | 13,55 | 9,10 | 14,35 | 41,0         | 6,35        | grey       |
|              | 16,0             | –     | 030-8614-030         |              | 9,10        | 13,55 | 6,20 | 14,35 | 41,0         | 6,35        | –          |

## ACCESSORIES

### CONTACTS

Standard contacts and contacts with reduced termination diameter



Socket contacts Finish: **A36**–silver plated and passivated/**A176**–gold plated

| Contact size | Wire size       |       | Part no. with finish |              | d1   | d2<br>+ 0,05 | d3    | d5   | d6    | l1<br>± 0,2 | l3<br>± 0,1 | Color code |
|--------------|-----------------|-------|----------------------|--------------|------|--------------|-------|------|-------|-------------|-------------|------------|
|              | mm <sup>2</sup> | AWG   | A36                  | A176         |      |              |       |      |       |             |             |            |
| 10/20        | 0,5–1,0         | 20/18 | 031-8554-000         | 031-8554-006 | 2,0  | 1,07         | 1,5   | 1,5  | 2,4   | 36,8 ± 0,3  | 4,75        | –          |
|              | 0,2–0,4         | 26/22 | 031-8554-010         | 031-8554-016 | 2,0  | 1,07         | 1,5   | 0,9  | 2,4   | 36,8 ± 0,3  | 4,75        | blue       |
| 15S/16S      | 0,75–1,5        | 18/16 | 031-8555-110         | 031-8555-115 | 3,2  | 1,65         | 1,75  | 1,75 | 2,75  | 29,1        | 3,9         | –          |
|              | 0,3–0,6         | 22/20 | 031-8688-110         | 031-8688-115 | 3,2  | 1,65         | 1,75  | 1,2  | 2,75  | 29,1        | 3,9         | red        |
|              | 0,14–0,38       | 22/26 | 031-8555-130         | 031-8555-135 | 3,2  | 1,65         | 1,75  | 0,9  | 2,75  | 29,1        | 3,9         | blue       |
| 15/16        | 0,75–1,5        | 18/16 | 031-8556-110         | 031-8556-115 | 3,2  | 1,65         | 1,75  | 1,75 | 2,75  | 37,8        | 7,9         | –          |
|              | 0,3–0,6         | 22/20 | 031-8639-120         | 031-8639-115 | 3,2  | 1,65         | 1,75  | 1,2  | 2,75  | 37,8        | 7,9         | red        |
|              | 0,14–0,38       | 22/26 | 031-8556-130         | 031-8556-135 | 3,2  | 1,65         | 1,75  | 0,9  | 2,75  | 37,8        | 7,9         | blue       |
| 25/12        | 2,0–3,0         | 14/12 | 031-8557-000         | 031-8557-006 | 4,8  | 2,45         | 3,3   | 2,5  | 3,8   | 37,0        | 7,9         | –          |
|              | 0,75–1,5        | 18/16 | 031-8557-020         | 031-8557-026 | 4,8  | 2,45         | 3,3   | 1,75 | 3,4   | 37,0        | 7,9         | black      |
|              | 4,0             | –     | 031-8557-010         | –            | 4,8  | 2,45         | 3,3   | 2,8  | 3,8   | 37,0        | 7,9         | –          |
|              | 0,3–0,6         | 22/20 | 031-8557-040         | –            | 4,8  | 2,45         | 3,3   | 1,2  | 2,75  | 37,0        | 7,9         | –          |
| 60/100/8     | –               | 8     | 031-8519-000         | 031-8519-006 | 6,5  | 3,65         | 6,25  | 4,55 | 6,8   | 40,1        | 6,35        | –          |
|              | 6,0             | 10    | 031-8558-000         | –            | 6,5  | 3,65         | 6,25  | 3,5  | 6,8   | 40,1        | 6,35        | yellow     |
|              | 10,0            | –     | 031-8559-000         | –            | 6,5  | 3,65         | 6,25  | 4,8  | 6,8   | 40,1        | 6,35        | –          |
|              | 2,0–3,0         | 14/12 | 031-8519-010         | –            | 6,5  | 3,65         | 6,25  | 2,5  | 6,8   | 40,1        | 6,35        | green      |
| 160/4        | –               | 4     | 031-8520-000         | –            | 8,6  | 5,8          | 9,55  | 7,1  | 9,55  | 40,1        | 6,35        | –          |
|              | 16,0            | –     | 031-8560-000         | –            | 8,6  | 5,8          | 9,55  | 6,2  | 9,55  | 40,1        | 6,35        | –          |
|              | 10,0            | –     | 031-8560-020         | –            | 8,6  | 5,8          | 9,55  | 4,8  | 9,55  | 40,1        | 6,35        | –          |
|              | –               | 6     | 031-8520-010         | –            | 8,6  | 5,8          | 9,55  | 5,7  | 9,55  | 40,1        | 6,35        | brown      |
| 500/0        | –               | 0     | 031-8521-000         | –            | 13,2 | 9,15         | 13,55 | 11,5 | 14,35 | 41,6        | 6,35        | –          |
|              | 50,0            | –     | 031-8561-000         | –            | 13,2 | 9,15         | 13,55 | 10,7 | 14,35 | 41,6        | 6,35        | –          |
|              | 25,0            | 4     | 031-8521-010         | –            | 13,2 | 9,15         | 13,55 | 7,6  | 14,35 | 41,6        | 6,35        | white      |
|              | 35,0            | 2     | 031-8521-020         | –            | 13,2 | 9,15         | 13,55 | 9,1  | 14,35 | 41,6        | 6,35        | grey       |
|              | 16,0            | –     | 031-8521-030         | –            | 13,2 | 9,15         | 13,55 | 6,2  | 14,35 | 41,6        | 6,35        | –          |

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## CA Layout Overview with standard contact wire size

The table below shows all available contact arrangements (layouts) available for ITT's CA product line.

For each layout the crimp contact styles and wire cross sections used as default are shown.

If other crimp sizes are required the connector can be ordered with suffix "-F0" (without contacts).

See ordering key on page 8 for details. In this case, separate contacts can be selected according to contact selection tables on pages 43-44.

\*The numbers represent modifications for contact termination as listed on page 8. E.g. CA3106E20-29S-14 is the modification for a shielded endbell with metric crimp contacts.

| Layout | No. of Contacts | Contact size | Contact Termination*      |               |
|--------|-----------------|--------------|---------------------------|---------------|
|        |                 |              | -F183, -14                | -F80, -15     |
|        |                 |              | wire size mm <sup>2</sup> | wire size AWG |
| 10SL-3 | 3               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 10SL-4 | 2               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 12S-3  | 2               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 12S-4  | 1               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 12SA10 | 4               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 14S-1  | 3               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 14S-2  | 4               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 14S-4  | 1               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 14S-5  | 5               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 14S-6  | 6               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 14S-7  | 3               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 14S-9  | 2               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 14SA7  | 7               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 16S-1  | 7               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 16S-4  | 2               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 16S-5  | 3               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 16S-8  | 5               | 15S/16S      | 0,75-1,5                  | 18/16         |
| 16-7   | 2               | 15/16        | 0,75-1,5                  | 18/16         |
|        | 1               | 60/100/8     | 10.0                      | 8             |
| 16-9   | 2               | 15/16        | 0,75-1,5                  | 18/16         |
|        | 2               | 25/12        | 2,0-3,0                   | 14/12         |
| 16-10  | 3               | 25/12        | 2,0-3,0                   | 14/12         |
| 16-11  | 2               | 25/12        | 2,0-3,0                   | 14/12         |
| 16-12  | 1               | 160/4        | 16.0                      | 4             |
| 16A11  | 2               | 25/12        | 2,0-3,0                   | 14/12         |
| 18-1   | 10              | 15/16        | 0,75-1,5                  | 18/16         |
| 18-3   | 2               | 25/12        | 2,0-3,0                   | 14/12         |
| 18-4   | 4               | 15/16        | 0,75-1,5                  | 18/16         |
| 18-5   | 2               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 1               | 15/16        | 0,75-1,5                  | 18/16         |
| 18-6   | 1               | 160/4        | 16.0                      | 4             |
| 18-7   | 1               | 60/100/8     | 10.0                      | 8             |
| 18-8   | 1               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 7               | 15/16        | 0,75-1,5                  | 18/16         |
| 18-9   | 5               | 15/16        | 0,75-1,5                  | 18/16         |

| Layout | No. of Contacts | Contact size | Contact Termination*      |               |
|--------|-----------------|--------------|---------------------------|---------------|
|        |                 |              | -F183, -14                | -F80, -15     |
|        |                 |              | wire size mm <sup>2</sup> | wire size AWG |
|        | 2               | 25/12        | 2,0-3,0                   | 18/16         |
| 18-10  | 4               | 25/12        | 2,0-3,0                   | 14/12         |
| 18-11  | 5               | 25/12        | 2,0-3,0                   | 14/12         |
| 18-12  | 6               | 15/16        | 0,75-1,5                  | 18/16         |
| 18-13  | 3               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 1               | 60/100/8     | 10.0                      | 8             |
| 18-17  | 2               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 5               | 15/16        | 0,75-1,5                  | 18/16         |
| 18-19  | 10              | 15/16        | 0,75-1,5                  | 18/16         |
| 18-20  | 5               | 15/16        | 0,75-1,5                  | 18/16         |
| 18-21  | 3               | 25/12        | 2,0-3,0                   | 14/12         |
| 18-22  | 3               | 15/16        | 0,75-1,5                  | 18/16         |
| 20-2   | 1               | 500/0        | 50.0                      | 0             |
| 20-3   | 3               | 25/12        | 2,0-3,0                   | 14/12         |
| 20-4   | 4               | 25/12        | 2,0-3,0                   | 14/12         |
| 20-6   | 3               | 15/16        | 0,75-1,5                  | 18/16         |
| 20-7   | 8               | 15/16        | 0,75-1,5                  | 18/16         |
| 20-8   | 4               | 15/16        | 0,75-1,5                  | 18/16         |
|        | 2               | 60/100/8     | 10.0                      | 8             |
| 20-11  | 13              | 15/16        | 0,75-1,5                  | 18/16         |
| 20-14  | 3               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 2               | 60/100/8     | 10.0                      | 8             |
| 20-15  | 7               | 25/12        | 2,0-3,0                   | 14/12         |
| 20-16  | 2               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 7               | 15/16        | 0,75-1,5                  | 18/16         |
| 20-17  | 5               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 1               | 15/16        | 0,75-1,5                  | 18/16         |
| 20-18  | 3               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 6               | 15/16        | 0,75-1,5                  | 18/16         |
| 20-19  | 3               | 60/100/8     | 10.0                      | 8             |
| 20-22  | 3               | 15/16        | 0,75-1,5                  | 18/16         |
|        | 3               | 60/100/8     | 10.0                      | 8             |
| 20-23  | 2               | 60/100/8     | 10.0                      | 8             |
| 20-24  | 2               | 15/16        | 0,75-1,5                  | 18/16         |
|        | 2               | 60/100/8     | 10.0                      | 8             |
| 20-27  | 14              | 15/16        | 0,75-1,5                  | 18/16         |
| 20-29  | 17              | 15/16        | 0,75-1,5                  | 18/16         |
| 20-33  | 11              | 15/16        | 0,75-1,5                  | 18/16         |
| 20A9   | 9               | 25/12        | 2,0-3,0                   | 14/12         |
| 20A24  | 24              | 15/16        | 0,75-1,5                  | 18/16         |
| 20A48  | 19              | 15/16        | 0,75-1,5                  | 18/16         |
| 22-1   | 2               | 60/100/8     | 10.0                      | 8             |
| 22-2   | 3               | 60/100/8     | 10.0                      | 8             |
| 22-4   | 2               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 2               | 60/100/8     | 10.0                      | 8             |
| 22-5   | 2               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 4               | 15/16        | 0,75-1,5                  | 18/16         |
| 22-7   | 1               | 500/0        | 50.0                      | 0             |
| 22-8   | 2               | 25/12        | 2,0-3,0                   | 14/12         |
| 22-9   | 3               | 25/12        | 2,0-3,0                   | 14/12         |
| 22-10  | 4               | 15/16        | 0,75-1,5                  | 18/16         |
| 22-12  | 2               | 60/100/8     | 10.0                      | 8             |
|        | 3               | 15/16        | 0,75-1,5                  | 18/16         |
| 22-14  | 19              | 15/16        | 0,75-1,5                  | 18/16         |
| 22-15  | 5               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 1               | 15/16        | 0,75-1,5                  | 18/16         |

| Layout | No. of Contacts | Contact size | Contact Termination*      |               |
|--------|-----------------|--------------|---------------------------|---------------|
|        |                 |              | -F183, -14                | -F80, -15     |
|        |                 |              | wire size mm <sup>2</sup> | wire size AWG |
| 22-16  | 3               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 6               | 15/16        | 0,75-1,5                  | 18/16         |
| 22-19  | 14              | 15/16        | 0,75-1,5                  | 18/16         |
| 22-20  | 9               | 15/16        | 0,75-1,5                  | 18/16         |
| 22-21  | 2               | 15/16        | 0,75-1,5                  | 18/16         |
|        | 1               | 500/0        | 50.0                      | 0             |
| 22-22  | 4               | 60/100/8     | 10.0                      | 8             |
| 22-23  | 8               | 25/12        | 2,0-3,0                   | 14/12         |
| 22-27  | 1               | 60/100/8     | 10.0                      | 8             |
|        | 8               | 15/16        | 0,75-1,5                  | 18/16         |
| 22-28  | 7               | 25/12        | 2,0-3,0                   | 14/12         |
| 24-2   | 7               | 25/12        | 2,0-3,0                   | 14/12         |
| 24-4   | 1               | 500/0        | 50.0                      | 0             |
|        | 3               | 15/16        | 0,75-1,5                  | 18/16         |
| 24-5   | 16              | 15/16        | 0,75-1,5                  | 18/16         |
| 24-6   | 8               | 25/12        | 2,0-3,0                   | 14/12         |
| 24-7   | 2               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 14              | 15/16        | 0,75-1,5                  | 18/16         |
| 24-9   | 2               | 160/4        | 16.0                      | 4             |
| 24-10  | 7               | 60/100/8     | 10.0                      | 8             |
| 24-11  | 6               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 3               | 60/100/8     | 10.0                      | -             |
| 24-12  | 3               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 2               | 160/4        | 16.0                      | 4             |
| 24-19  | 12              | 15/16        | 0,75-1,5                  | 18/16         |
| 24-20  | 2               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 9               | 15/16        | 0,75-0,5                  | 18/16         |
| 24-22  | 4               | 60/100/8     | 10.0                      | 8             |
| 24-27  | 7               | 15/16        | 0,75-1,5                  | 18/16         |
| 24-28  | 24              | 15/16        | 0,75-1,5                  | 18/16         |
| 24A24  | 12              | 25/12        | 2,0-3,0                   | 14/12         |
| 24A28  | 28              | 15/16        | 0,75-1,5                  | 18/16         |
| 24A51  | 13              | 15/16        | 0,75-1,5                  | 18/16         |
|        | 5               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 1               | 60/100/8     | 10.0                      | 8             |
| 28-2   | 12              | 15/16        | 0,75-1,5                  | 18/16         |
|        | 2               | 25/12        | 2,0-3,0                   | 14/12         |
| 28-5   | 2               | 15/16        | 0,75-1,5                  | 18/16         |
|        | 2               | 160/4        | 16.0                      | 4             |
|        | 1               | 25/12        | 2,0-3,0                   | 14/12         |
| 28-9   | 6               | 15/16        | 0,75-1,5                  | 18/16         |
|        | 6               | 25/12        | 2,0-3,0                   | 14/12         |
| 28-10  | 2               | 160/4        | 16.0                      | 4             |
|        | 2               | 60/100/8     | 10.0                      | 8             |
|        | 3               | 25/12        | 2,0-3,0                   | 14/12         |
| 28-11  | 18              | 15/16        | 0,75-1,5                  | 18/16         |
|        | 4               | 25/12        | 2,0-3,0                   | 14/12         |
| 28-12  | 26              | 15/16        | 0,75-1,5                  | 18/16         |
| 28-15  | 35              | 15/16        | 0,75-1,5                  | 18/16         |
| 28-16  | 20              | 15/16        | 0,75-1,5                  | 18/16         |
| 28-20  | 4               | 15/16        | 0,75-1,5                  | 18/16         |
|        | 10              | 25/12        | 2,0-3,0                   | 14/12         |
| 28-21  | 37              | 15/16        | 0,75-1,5                  | 18/16         |
| 28-22  | 3               | 160/4        | 16.0                      | 4             |

| Layout | No. of Contacts | Contact size | Contact Termination*      |               |
|--------|-----------------|--------------|---------------------------|---------------|
|        |                 |              | -F183, -14                | -F80, -15     |
|        |                 |              | wire size mm <sup>2</sup> | wire size AWG |
|        | 3               | 15/16        | 0,75-1,5                  | 18/16         |
| 28-51  | 12              | 25/12        | 2,0-3,0                   | 14/12         |
| 28A16  | 4               | 160/4        | 16.0                      | 4             |
|        | 5               | 15/16        | 0,75-1,5                  | 18/16         |
| 28A51  | 43              | 15/16        | 0,75-1,5                  | 18/16         |
| 28A63  | 19              | 15/16        | 0,75-1,5                  | 18/16         |
|        | 9               | 25/12        | 2,0-3,0                   | 14/12         |
| 32-1   | 3               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 2               | 500/0        | 50.0                      | 0             |
| 32-5   | 2               | 500/0        | 50.0                      | 0             |
| 32-6   | 16              | 15/16        | 0,75-1,5                  | 18/16         |
|        | 2               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 3               | 60/100/8     | 10.0                      | 8             |
|        | 2               | 160/4        | 16.0                      | 4             |
| 32-7   | 28              | 15/16        | 0,75-1,5                  | 18/16         |
|        | 7               | 25/12        | 2,0-3,0                   | 14/12         |
| 32-8   | 6               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 24              | 15/16        | 0,75-1,5                  | 18/16         |
| 32-9   | 12              | 15/16        | 0,75-1,5                  | 18/16         |
|        | 2               | 160/4        | 16                        | 4             |
| 32-13  | 5               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 18              | 15/16        | 0,75-1,5                  | 18/16         |
| 32-15  | 6               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 2               | 500/0        | 50.0                      | 0             |
| 32-17  | 4               | 160/4        | 16.0                      | 4             |
| 32A10  | 54              | 15/16        | 0,75-1,5                  | 18/16         |
| 32A47  | 47              | 15/16        | 0,75-1,5                  | 18/16         |
| 32A55  | 55              | 15/16        | 0,75-1,5                  | 18/16         |
| 32A69  | 41              | 10/20        | 0,5-1,0                   | 20/18         |
|        | 20              | 15/16        | 0,75-1,5                  | 18/16         |
| 36-3   | 3               | 500/0        | 50.0                      | 0             |
|        | 3               | 25/12        | 2,0-3,0                   | 14/12         |
| 36-5   | 4               | 500/0        | 50.0                      | 0             |
| 36-6   | 4               | 160/4        | 16.0                      | 4             |
|        | 2               | 500/0        | 50.0                      | 0             |
| 36-7   | 7               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 40              | 15/16        | 0,75-1,5                  | 18/16         |
| 36-8   | 1               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 46              | 15/16        | 0,75-1,5                  | 18/16         |
| 36-9   | 14              | 15/16        | 0,75-1,5                  | 18/16         |
|        | 14              | 25/12        | 2,0-3,0                   | 14/12         |
|        | 2               | 60/100/8     | 10.0                      | 8             |
|        | 1               | 160/4        | 16.0                      | 4             |
| 36-10  | 48              | 15/16        | 0,75-1,5                  | 18/16         |
| 36-14  | 5               | 60/100/8     | 10.0                      | 8             |
|        | 5               | 25/12        | 2,0-3,0                   | 14/12         |
|        | 6               | 15/16        | 0,75-1,5                  | 18/16         |
| 36-15  | 35              | 15/16        | 0,75-1,5                  | 18/16         |
| 36A34  | 52              | 15/16        | 0,75-1,5                  | 18/16         |
| 36A35  | 4               | 15/16        | 0,75-1,5                  | 18/16         |
|        | 4               | 500/0        | 50.0                      | 0             |
| 36A46  | 27              | 25/12        | 2,0-3,0                   | 14/12         |
| 36A98  | 8               | 60/100/8     | 10                        | 8             |
|        | 31              | 15/16        | 0,75-1,5                  | 18/16         |
| 36A99  | 15              | 15/16        | 0,75-1,5                  | 18/16         |
|        | 50              | 10/20        | 0,2-0,4                   | 26/22         |

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## Crimp Tools

For pin and socket contacts according VG95234 and for Cannon contacts with reduced coupling dimensions.

|       | Contact Size | Wire size mm <sup>2</sup> | AWG                   | Hand Crimp Tools   | Order Reference | Crimp Locator          | Order Reference |  |        |              |
|-------|--------------|---------------------------|-----------------------|--------------------|-----------------|------------------------|-----------------|--|--------|--------------|
| Pin   | 10           | 0,5-1,0                   | 20/18                 | M22520-1-01        | 995-0001-585    | 600325                 | 121586-0034     |  |        |              |
|       |              | 0,2-0,4                   | 26/22                 |                    |                 |                        |                 |  |        |              |
|       | 15S/16S      | 0,75-1,5                  | 18/16                 |                    |                 |                        |                 |  |        |              |
|       |              | 0,3-0,6                   | 22/20                 |                    |                 |                        |                 |  |        |              |
|       |              | 0,14-0,38                 | 22/26                 |                    |                 |                        |                 |  |        |              |
|       | Socket       | 15S/16S                   | 0,750-1,5             |                    |                 | 18/16                  |                 |  | TH 452 | 995-0002-052 |
|       |              |                           | 0,3-0,6               |                    |                 | 22/20                  |                 |  |        |              |
|       |              |                           | 0,14-0,38             |                    |                 | 22/26                  |                 |  |        |              |
|       |              | 15/16                     | 0,75-1,5              |                    |                 | 18/16                  |                 |  |        |              |
|       |              |                           | 0,3-0,6               |                    |                 | 22/20                  |                 |  |        |              |
|       |              | 0,14-0,38                 | 22/26                 |                    |                 |                        |                 |  |        |              |
| 25/12 |              | 2,0-3,0                   | 14/12                 |                    |                 |                        |                 |  |        |              |
|       |              | 0,75-1,5                  | 18/16                 |                    |                 |                        |                 |  |        |              |
|       | 4            |                           |                       |                    |                 |                        |                 |  |        |              |
|       | Contact Size | Wire size mm <sup>2</sup> | AWG                   | Hydraulic Handpump | Order Number    | Electro Hydraulic Tool | Order Number    |  |        |              |
|       | 60/100/8     | 6<br>2,0-3,0              | 8<br>10<br>14/12      | HPW400U-ITT        | 121586-5257     | HP400EL-ITT            | 121586-5253     |  |        |              |
|       | 160/4        | 16<br>10                  | 4<br>6                |                    |                 |                        |                 |  |        |              |
|       | 500/0        | 50<br>25<br>35<br>16      | 0<br>-<br>4<br>2<br>- |                    |                 |                        |                 |  |        |              |

## Insertion & Extraction Tools

Crimp contacts should be inserted or, if needed, extracted with the correct tools. In order to avoid damage to the insulator it is recommended to use guide pins for the insertion of socket contacts.

| Insertion Tools Part No. | Order Reference | Insertion Pliers Part No. | Order Reference | Extraction Tools Part No. | Order Reference | Guiding Pins for Socket Contacts |
|--------------------------|-----------------|---------------------------|-----------------|---------------------------|-----------------|----------------------------------|
| CIT 20                   | 121086-3009     | CIT-F80-20                | 121086-0098     | CET-F80-20                | 121086-0082     |                                  |
| CIT 16                   | 121086-3008     | CIT-F80-16                | 121086-0097     | CET-F80-16                | 121086-0081     | 27977-16T50                      |
| CIT 12                   | 121086-3007     | CIT-F80-12                | 121086-0096     | CET-F80-12                | 121086-0080     | 27977-12T8                       |
| CIT 8                    | 121086-0095     |                           |                 | CET-8                     | 121086-0079     |                                  |
| CIT 4                    | 121086-0094     |                           |                 | CET-4                     | 121086-0078     |                                  |
| CIT 0                    | 121086-0093     |                           |                 | CET-0                     | 121086-0077     |                                  |



### Basic - Hydraulic - Electrically driven tool - Version A



H- Crimp Head      Electro Hydraulic Crimp Tool      Foot Pedal

### Basic - Hydraulic - Manual Operated tool - Version B



H- Crimp Head

Pump Handle with Reset Function

Handle

### Basic - Manual operated crimp tool - Version C



| Version       | Description   | Marking     | Part Number  |
|---------------|---|-------------|--------------|
| A             | Electro-Hydraulic Crimp tool set with foot pedal, hand control and crimp head | HP700EL-ITT | 121586-5279  |
| A (Accessory) | Switch mode power supply  | SNT4-ITT    | 121586-5280  |
| A (Accessory) | Lithium Ion Battery 18V 3A with recharger                                     | LGA4-ITT    | 121586-5281  |
| B             | Manually operated Hydraulic handtool  | HPW400U-ITT | 121586-5257  |
| C             | Hand Crimp Tool   | M22520-1-01 | 995-0001-585 |



Crimp tool and Bench mount      Foot pedal      Gauge

| Description                        | Marking    | Part Number  |
|------------------------------------|------------|--------------|
| Pneumatic crimp tool (AWG 12 - 20) | WA27F-CE   | 121586-5067  |
| Bench mount                        | BM-2       | 121586-5068  |
| Foot pedal                         | WA10       | 121586-5069  |
| Gauge                              | M22520-3-1 | 995-0001-684 |

### Crimp Dies

| Product   | Contact Size | Part Number | Hex. Diameter | Stamped label | Cable Size |                 |
|-----------|--------------|-------------|---------------|---------------|------------|-----------------|
|           |              |             |               |               | AWG        | mm <sup>2</sup> |
| Crimp die | 60/100/8     | 121586-5231 | 5,20          | 01            | 8          | 6/10            |
|           | 160/4        | 121586-5230 | 7,25          | 02            | 4          | 16              |
|           | 500/0        | 121586-5229 | 11,40         | 03            | 0          | 50              |
| Locator   | MS / CA      | 121586-5232 |               |               |            |                 |



Crimp die with locator      Crimp die      Locator

#### Notes

1. For insertion and extraction of the contacts and for connector assembly see Assembly instructions CAS25094
2. Standard contacts acc. to VG95234

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This note must be read in conjunction with the Product data sheet / catalog. Failure to observe the advice in this information sheet and the operating conditions specified in the product data sheet / catalog could result in hazardous situations.

## 1. MATERIAL CONTENT AND PHYSICAL FORM

Electrical connectors do not usually contain hazardous materials. They contain conducting and non-conducting materials and can be divided into two groups:

- a) Printed circuit types and low-cost audio types which employ all plastic insulators and casings;
- b) Rugged, Fire Barrier and High Reliability types with metal casings and either natural rubber, synthetic rubber, plastic, or glass insulating materials.

Contact materials vary with type of connector and application and are usually manufactured from either copper, copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be used.



## 2. FIRE CHARACTERISTICS AND ELECTRIC SHOCK HAZARD

There is no fire hazard when the connector is correctly wired and used within the specified parameters. Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionization and burning. Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage (e.g., cracked, or deformed contacts, broken strands of wire). Local overheating may also result from the use of the incorrect application tools or from poor quality soldering or slack screw terminals. Overheating may occur if the ratings in the product data sheets/catalogues are exceeded and can cause breakdown of insulation and hence electric shock. If heating is allowed to continue, it intensifies by further increasing the local resistance through loss of temper of spring contacts, formation of oxide film on contacts and wires and leakage currents through carbonization of insulation and tracking paths. Fire can then result in the presence of combustible materials, and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

## 3. HANDLING

Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers. Electrical connectors may be damaged in transit to the customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

## 4. DISPOSAL

Incineration of certain materials may release noxious or even toxic fumes.

## 5. APPLICATION

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit because an electric

This document solely applies to European manufactured CA Threaded products  
Dimensions shown in mm | Specifications and dimensions subject to change

shock could result from touching exposed contacts on an unmated connector. Voltages more than 30 V ac or 42.5 V dc are potentially hazardous, and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked before making live to ensure that there is no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity check should be made to make certain that there are no high resistance joints or spurious conducting paths. Always use the correct application tools as specified in the data sheets/catalogues. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate regulations for the applicable region/country.

## 6. IMPORTANT GENERAL INFORMATION

(i) **Air and creepage paths/Operating voltage.** The admissible operating voltages depend on the individual applications and the applicable safety regulations (including, but not limited to, region/country-specific regulations). For this reason, the air and creepage path data are only reference values. A reduction of air and creepage paths due to PC board and/or harnessing is normal.

(ii) **Temperature.** All information given are temperature limits. The operation temperature depends on the individual application.

(iii) **Other important information.** ITT continuously endeavors to improve its products. Therefore, the products may deviate from the description, technical data and shape as shown in this catalogue and/or data sheets.

## 7. MISCELLANEOUS

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ITT is a focused multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions. ITT's Cannon brand is a leading global manufacturer of connector products serving international customers in aerospace, defense, medical, industrial and transportation end markets. ITT's Connector business, which also includes the Veam and BIW Connector Systems brand, manufactures and supplies a variety of connectors and interconnects that make it possible to transfer data, signal and power in an increasingly connected world.

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