cannon

# CA Bayonet / VG95234 Connectors

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# Proven Quality, Reliability & Expertise

ITT's Cannon brand 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.

**In 2015, Cannon celebrated 100 years that helped make history.** Cannon products were used in the first "talking" movies and helped transmit the first messages home from the moon. Today we proudly continue our legacy of innovating to connect the world and inspire the successes of the next century – **because amazing things happen when great things connect.**

## 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 White Plains, N.Y., with employees in more than 35 countries and sales in a total of approximately 125 countries. For more information, visit www.itt.com.

Dimensions shown in mm
Specifications and dimensions subject to change

## Our connector portfolio remains the most extensive in the industry.

Offering a reliable and cost effective range of interconnect solutions.

Dimensions shown in mm
Specifications and dimensions subject to change

# Introduction to CAB/VG95234

Cannon CA Bayonet series was designed in accordance with the VG95234 specification. This versatile and highly reliable connector series is an improvement on the well established MIL-C-5015 series. CA-Bayonet has a proven "reverse bayonet" coupling design that offers exceptional vibration protection, by a simple 120° turn.

Initially designed for aircraft and airborne applications, these rugged connectors are used in the electrical equipment of various off-road vehicles, construction machinery, industrial devices, railroad and military vehicles.

## Advantages

– rugged shell design

– waterproof up to IP68, (10 meters / 35 feet or 1 bar for 16 h) and IP69k (water jet)

– environmental protection

– bayonet coupling for easy mating and unmating

– vibration proof

Cannon has the complete VG95234 program available and, in addition, many other types which exceed the requirements of VG95234 and MIL-C-5015.

**Attention**

Metal shell connectors which may be accessed are not suitable for mains power.

## Connector Design & Features

**Robust design**

- Rugged aluminium shell for most severe conditions
- Bayonet coupling with rigid stainless steel roller bolts for fast and reliable mating (min. 500 cycles)
- An audible sound and a colour-marked snap-in position ensure additional coupling security

**Contact arrangements & accessories**

- Over 140 arrangements and 12 connector sizes available for 1 to 65 circuits
- Wide selection of end bells for individual wires & jacketed cables
- Choice of accessories e.g. seals, gaskets, dust caps, wire hole fillers

**VG & commercial offering**

- Connector offering according VG95234 standard – fully approved VG portfolio as required for military applications
- Extended offering of additional connector versions and endbell solutions for typical industrial applications

**Contact offering**

- Contacts provide at least 500 mating cycles
- Contacts available as crimp, solder or PCB versions
- Gold plated contacts available for low current applications
- Crimp and assembly tooling available for all contact sizes

**Environmental protection**

- Cadmium as standard, high performance plating 500h salt spray, highly conductive
- Cadmium & ChromVI free alternatives for RoHS applications
  - > ZnNi Blue grey A240 plating for 500h salt spray resistance and highly conductive
  - > ZnCo Black A232 plating, for 200h salt spray resistance, conductive
  - > ZnCo Green A233 plating, for 200h salt spray resistance and highly conductive
  - > ZnCo Black A239 plating, VG approved military plating, 48h salt spray and highly conductive
- IP67 pressure water & IP69k water jet sealing

**Insulators / grommets**

- Made of high quality polychloroprene for temperature range -55/125°C (-67/+257°F)
- Material is self-extinguishing
- Resistant against hydraulic fluids, jet fuel, diesel fuel, gasoline, lubricants, brake and fire extinguisher fluids

Dimensions shown in mm

Specifications and dimensions subject to change

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Dimensions shown in mm
Specifications and dimensions subject to change

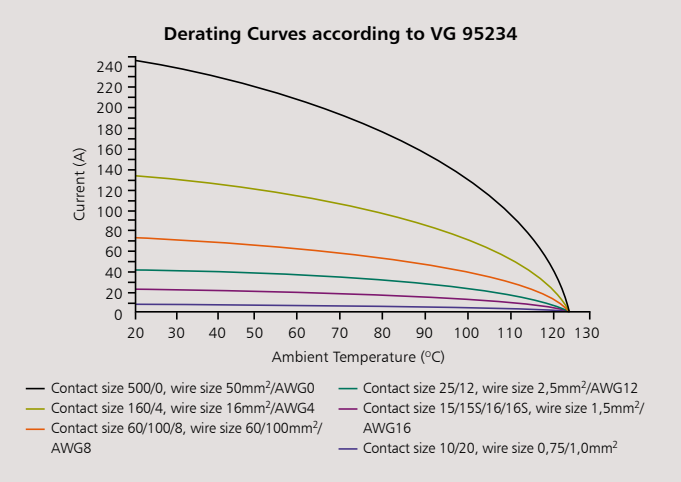
## Technical Data

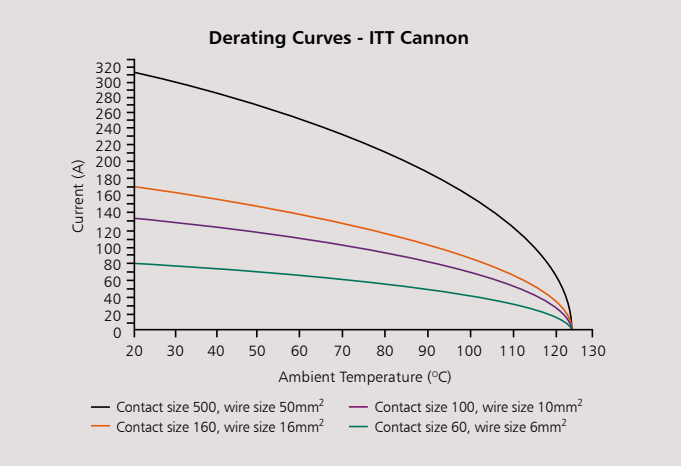
### Contact rating at 20 °C (+68 °F) acc. to VG95234

| Contact size | Max. current A |
|---|---|
| 10 | 8 |
| 16S/15S | 22 |
| 16/15 | 22 |
| 12/25 | 41 |
| 8/60/100 | 74 |
| 4/160 | 135 |
| 0/500 | 245 |

### Current rating

Reference values based on measurements from a single pair of contacts.




### Contact resistance

(Millivolt test)

The contact resistance has to be tested according to VG95234 part 2, test no. 5.10.1 and VG 95210, part 37.

| Contact size Metric | AWG | Max. contact resistance mΩ |
|---|---|---|
| 10 | – | 12 |
| 15S/15 | 16S/16 | 6 |
| 25 | 12 | 3 |
| 60/100 | 8 | 1 |
| 160 | 4 | 0,5 |
| 500 | 0 | 0,2 |

### Insulation resistance

Acc. to VG95319, part 2, test no. 5.12 and VG95210, part 32, test condition B

Standard insulator material > 1000 MΩ

FKM insulator material (upon request) > 5000 MΩ

### Test voltage

Acc. to VG95319, part 2, test no. 5.13 and VG 95210, part 31
Test voltage for service rating:

| Service rating | Test voltage $V_{rms}$ |
|---|---|
| Instruments | 1050 |
| A | 1600 |
| B | 4500 |
| D | 2500 |
| E | 3000 |

### Air and creepage paths (min.)

| Voltage class | Instr. | A | D | E |
|---|---|---|---|---|
| Air and creepage paths mm | 0,7 | 1,1 | 2,8 | 4,8 |

### Operating voltage and connector usage

Operating voltage for CA Bayonet / VG95234 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.

Dimensions shown in mm
Specifications and dimensions subject to change

## Mechanical Features

### Ambient temperature
Standard insulator material
–55°/125°C (– 67/257°F)

### FKM insulator material*
–30°/200°C (– 22/392°F)

### Safety provisions**
In mated condition
General (all connectors):
IP67 acc. to ISO20653

VG 95234 Connectors:
1 bar for 16h

IP69K Version Connectors:
Plug with Universal Endbell and receptacle with o-ring
IP68 (1bar for 16h); IP69K (Jet water sealed) acc. to ISO20653

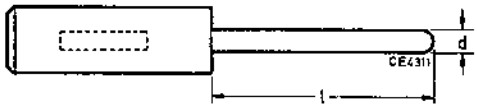
### Vibration test
200 m/s$^2$ at 10 to 2000 Hz

### Mating cycles
500 min.

### Withdrawal force per contact
The corresponding separating force has to be measured according to VG95319, part 2, test no. 5.7. using the required test gage and DIN EN60512-16-5.

| Contact size Metric | AWG | Separating force min N | Gage |
|---|---|---|---|
| 10 | – | 0,3 | G 0,99 |
| 15S/15 | 16S/16 | 1,0 | G 1,56 |
| 25 | 12 | 1,5 | G 2,36 |
| 60/100 | 8 | 3,0 | G 3,58 |
| 160 | 4 | 4,0 | G 5,69 |
| 500 | 0 | 8,5 | G 9,04 |

### Gauge
(see also VG95234, Part 1)




| Gauge | Contact diameter d +0,01 | L –1 |
|---|---|---|
| G 0,99 | 0,99 | 7 |
| G 1,56 | 1,56 | 9 |
| G 2,36 | 2,36 | 12 |
| G 3,58 | 3,58 | 13 |
| G 5,69 | 5,69 | 13 |
| G 9,04 | 9,04 | 13 |

### Coupling torque
The allowable coupling torques have to be tested under full bundle conditions of the connectors to VG95319, part 2, test no. 5.8.2.

| Shell Size | Allowable coupling torque closing and opening Nm max. | Opening Nm min. |
|---|---|---|
| 10SL | 1,7 | 0,15 |
| 12S | 2,5 | 0,23 |
| 14S | 3,6 | 0,35 |
| 16S/16 | 5,5 | 0,46 |
| 18 | 8 | 0,58 |
| 20 | 9 | 0,7 |
| 22 | 11 | 0,8 |
| 24 | 14 | 0,8 |
| 28 | 17 | 0,92 |
| 32 | 19 | 1,03 |
| 36 | 23 | 1,03 |

### Contact retention
The contact retention has to be tested according to VG95319, part 2, test no. 5.4. Test force direction = Mating direction.

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

## Materials
**Shell -** Aluminum alloy
Standard finishes

Cadmium (A66), VG approved,, 500h salt spray, highly conductive
ZnCo black (A239) RoHS, VG approved, 48h salt spray, highly conductive
ZnNi blue grey (A240) RoHS, 500h salt spray, highly conductive
ZnCo black (A232) RoHS, 200h salt spray, conductive
ZnCo green (A233) RoHS, 200h salt spray, highly conductive

### Insulator and grommets
Polychloroprene (Standard)
FKM (High temperature)

**Contacts -** Copper alloy
Standard finish - Hard silver
Special finish - A176 nickel and hard gold plating

* consult factory for availability

** Longitudinal sealing: The connector is not sealed against fluids entering through the cable, as the sealing lips of the single wire sealing are pressing against the jacket of the individual conductors.

Only solutions as PG or ME adapters as well as universal endbell provide for longitudinal sealing provided that both ends of the cable are sealed correctly.

Dimensions shown in mm
Specifications and dimensions subject to change



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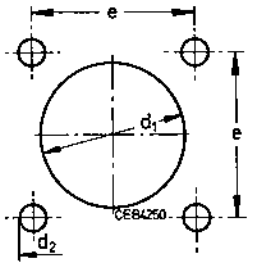
## Mounting Holes

Mounting holes for wall mounting receptacles style A, B1, B2, C1, C2, J1, J2, N1 and N2 acc. to VG95234, or CA 3100E/F/R-B and CA 3102 E-B.




| Shell size | ø d1 (H12*) Style A CA 3102E-B | Style B1, B2 C1, C2, J1, J2 N1, N2 CA 3100E, F, R-B | ø d2 (H13*) Style A, B2, C2, J2, N2 CA-B Mod-05 | Style B1, C1, J1, N1 CA 3100E, F, R-B | E ±0,15 | Screws to be used A, B2, C2, J2, N2 CA-B-Mod. 05 | B1, C1, J1, N CA 3100E, F |
|---|---|---|---|---|---|---|---|
| 10SL | 16,4 | 18,5 | 3,4 | 4,5 | 18,2 | M3...ISO 1580 | M4...ISO 1207 |
| 12S | 16,4 | 21,7 | 3,4 | 4,5 | 20,6 | M3...ISO 1580 | M4...ISO 1207 |
| 14S | 19,7 | 24,9 | 3,4 | 4,5 | 23,0 | M3...ISO 1580 | M4...ISO 1207 |
| 16S | 22,9 | 27,7 | 3,4 | 4,5 | 24,6 | M3...ISO 1580 | M4...ISO 1207 |
| 16 | 22,9 | 27,7 | 3,4 | 4,5 | 24,6 | M3...ISO 1580 | M4...ISO 1207 |
| 18 | 26,1 | 31,1 | 3,4 | 4,5 | 27,0 | M3...ISO 1580 | M4...ISO 1207 |
| 20 | 29,5 | 34,5 | 3,4 | 4,5 | 29,4 | M3...ISO 1580 | M4...ISO 1207 |
| 22 | 32,7 | 37,8 | 3,4 | 4,5 | 31,8 | M3...ISO 1580 | M4...ISO 1207 |
| 24 | 36,0 | 41,3 | 3,9 | 4,5 | 34,9 | M3,5...ISO 1580 | M4...ISO 1207 |
| 28 | 42,0 | 47,1 | 3,9 | 5,5 | 39,7 | M3,5...ISO 1580 | M5...ISO 1207 |
| 32 | 48,3 | 53,8 | 4,5 | 5,5 | 44,5 | M4...ISO 1580 | M5...ISO 1207 |
| 36 | 54,6 | 60,0 | 4,5 | 5,5 | 49,2 | M4...ISO 1580 | M5...ISO 1207 |

When used with safety elements the max. outer diameter must not exceed the outer diameter of the screw head.
*Drilling tolerances according to DIN ISO 286.

## Harnessing

VG95234 connectors are designed for single wire harnessing. Full sealing will be guaranteed only by using wires in accordance with MIL-W-5086, LN 9251 (for AWG) and VG 95218-20 and TL 6145-011 (for metric wires). All other wires have to conform to wire and insulation diameters with the data given in the following table:

| Contact size AWG | Metric mm | Crimp- and solder contacts AWG | Metric $mm^2$ | Insulation Ø AWG | Metric mm |
|---|---|---|---|---|---|
| – | 10 | – | 0,75-1,0 | – | 1,45-2,5 |
| 16S/16 | 15S/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 conductor or insulator 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 AWG | Metric | Stripping length mm |
|---|---|---|
| – | 10 | 6.0 + 0,5 |
| 16S/16 | 15S/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 |

Dimensions shown in mm
Specifications and dimensions subject to change

## Separating and Mounting Dimensions

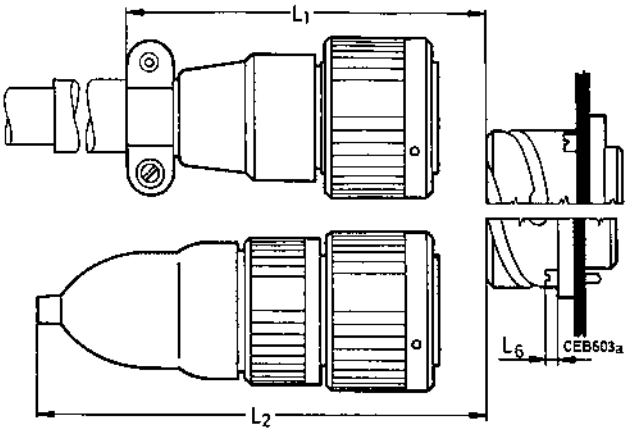
**When using connectors according to VG95234 the below mentioned installation dimensions have to be met.**

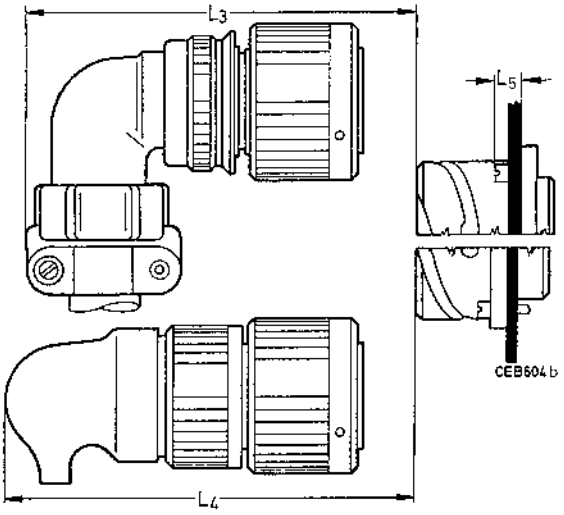
**Connector style D or**
CA3106E-B and CA3106F-B CA3106F-B-13/-14/-15

Connector style G, M, R1 or CA3106E-B-02/-03/-06 CA3106E-B-13/-14/-15 and CA3106E-B-32 with shrink boot, straight, acc. VG95343

**Connector style E, E1 and K or**
CA3108E/F-B and CA3108F-B-13/-14/-15

Connector style G, M, R1or CA3106E-B-02/-03/-06 CA3106E-B-32 with shrink boot 90° acc. to VG 95343




| Shell size | L1 (D) min. | L2 (G/M) min. | L3 min. | L4 (G/M) min. | L4 R1 +10 mm | L5 max | L6 max |
|---|---|---|---|---|---|---|---|
| 10SL | 70 | 70 | 70 | 65 | 75 | 8,0 | 3,5 |
| 12S | 70 | 75 | 75 | 70 | 80 | 8,0 | 3,5 |
| 14S | 70 | 75 | 75 | 70 | 80 | 8,0 | 3,5 |
| 16S | 70 | 90 | 80 | 80 | 90 | 8,0 | 3,5 |
| 16 | 80 | 100 | 90 | 90 | 100 | 6,5 | 3,5 |
| 18 | 90 | 100 | 90 | 90 | 100 | 8,0 | 3,5 |
| 20 | 90 | 100 | 95 | 100 | 110 | 8,0 | 3,5 |
| 22 | 90 | 100 | 95 | 100 | 110 | 8,0 | 3,5 |
| 24 | 110 | 120 | 105 | 110 | 120 | 8,0 | 5,0 |
| 28 | 110 | 120 | 105 | 110 | 120 | 9,0 | 5,0 |
| 32 | 110 | 180 | 115 | 120 | 130 | 9,0 | 6,0 |
| 36 | 110 | 190 | 120 | 130 | 140 | 9,0 | 6,0 |

Dimensions shown in mm
Specifications and dimensions subject to change



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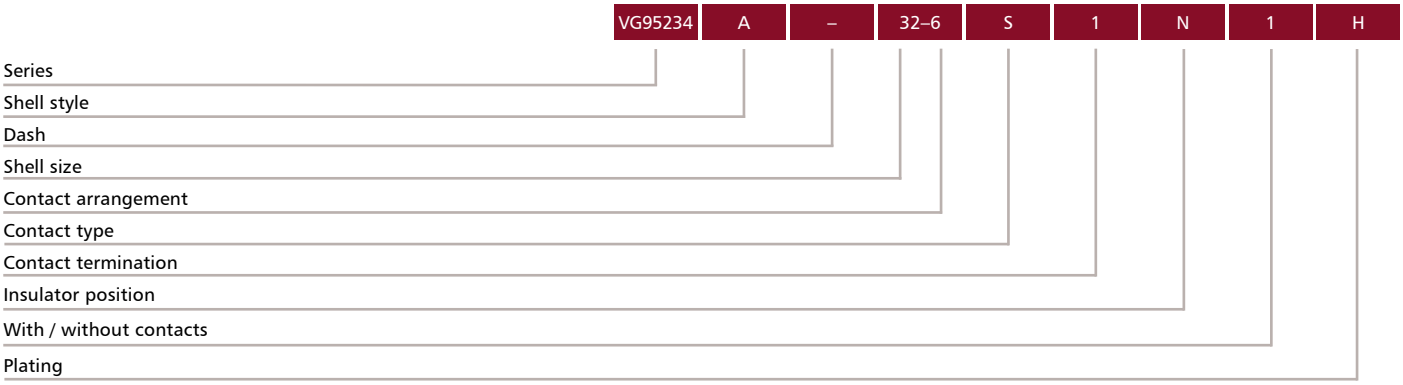
## How to order

### VG Order reference




## Explanation

### Series
VG95234

### Shell style
J1, J2, N1, N2, S1, U1, U2 – wall mounting receptacle
F, V – cable connection receptacle
A, B1, B2 – box mounting receptacle
C1, C2 – bulkhead receptacle
D, G, H, L, M, R1, T – straight plug
E, E1, K – plug 90°

### Shell size
10SL, 14S, 16S, 16, 18, 20, 22, 24, 28, 32 and 36

### Contact arrangement
See pages 13 to 26

### Contact type
P – Pin contact
S – Socket contact

### Contact termination
Without identification = metric crimp contacts
Identification '1' = AWG crimp contacts
Identification '2' = mixed AWG and metric crimp contacts

### Insulator position
Positions N, X, Y allowed only, see details on 'contact arrangement' pages 13-23

### With / without contacts
Without identification = with crimp contacts
Identification '1' = without crimp contacts, to be ordered separately

### Plating
Without identification = cadmium
Identification 'H' = RoHS, black, ZnCo plating, VG approved

* 'H' is the VG plating modification identical to commercial plating A239

## Important!

VG contact arrangements are restricted. Only those layouts listed in VG95234 standard are allowed. See the following pages for VG permitted layouts and contact arrangements.

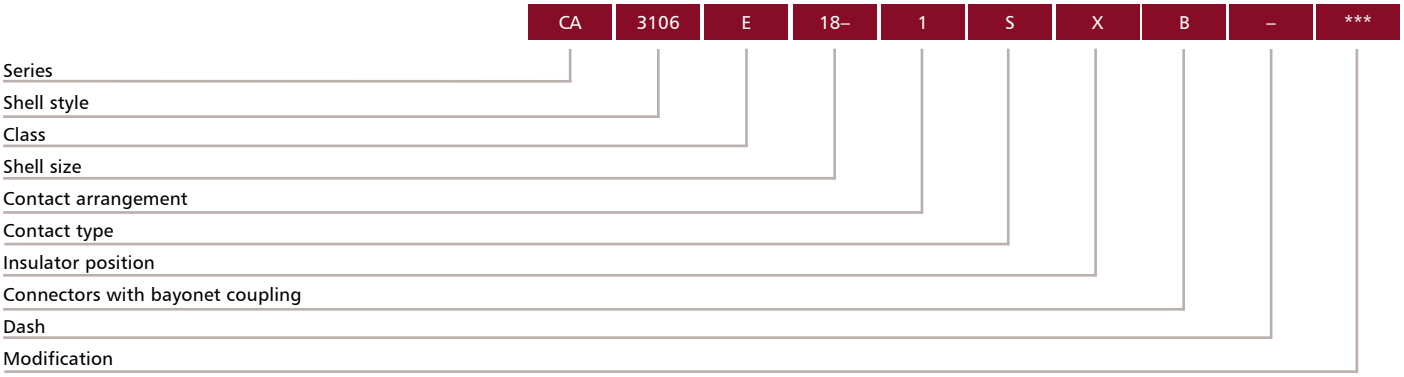
Further details about contact terminations / wire ranges can be found on pages 54-59.

## Accessories acc. to VG

| | |
|---|---|
| Dummy receptacles | VG95234 BOD |
| Gaskets, front mount | VG95234 DA |
| Gaskets, rear mount | VG95234 DH |
| Protecting caps | VG95234 KR |
| Protecting caps | VG95234 KB |
| Cable clamps | VG95234 KK |
| Bushing | VG95234 KT |

## How to order

### Cannon Order reference




## Explanation

### Series

CA – Circular connectors with bayonet coupling

### Shell style

3100 – Wall mounting receptacle
3101 – Cable connecting receptacle
3102 – Box mounting receptacle
3105 – Dummy receptacle for front and panel mounting
3106 – Plug, straight
3108 – Plug, 90°
TBF – Bulkhead receptacle

### Class

E – environmental with resilient insulators and endbell with clamp and bushing
F – environmental with resilient insulator and endbell for flex tube
R – environmental with resilient insulator and shortened light-weight endbell without cable clamp

### Shell size

10SL, 12S, 14S, 16S, 16, 18, 20, 22, 24, 28, 32 and 36

### Contact arrangement

See pages 13 to 26

### Contact type

P – Pin
S – Socket
PS – one side pin, one side socket (only for TBF)

### Insulator position

Besides the normal position further insulator positions are possible for Cannon connectors (see page 13-23) to prevent mismating. Polarization is achieved by turning the pin contact insulator clockwise towards the shell, the socket insulator, however, in opposite clockwise direction. This information refers to the mating side of the contact insulator. For special insert alternations of standard inserts see page 24.

### Modification

see page 12

Dimensions shown in mm
Specifications and dimensions subject to change



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## Modifications

**(only for CA.....-B)**

01 – metric crimp contacts
02 – adapter for heat shrink boots AWG crimp contacts
03 – adapter for heat shrink boots, metric crimp contacts
04 – rear mount, thread holes in flange, metric crimp contacts (CA3102 only)
05 – rear mount, through holes in flange, (CA3100, CA 3102, rear mounting CA 20, TBF)
06 – adaptor for heat shrink boots, solder pot contacts
08 – angular endbell, thread holes in flange (for CA3100 only)
09 – angular endbell, through holes in flange (for CA3100 only)
13 – shielded version, solder pot contacts
14 – shielded version, metric crimp contacts
15 – shielded version, AWG crimp contacts
32 – shielded version, reduced cable entry diameter
41 – grounding spring on barrel
109 – F80 contacts, rear mount, thread holes in flange (for CA3102 only)
111 – rear mount, thread holes in flange (CA3102 only), solder pot contacts
F80 – AWG crimp contacts
A176 – gold plated contact, see pages 54-55
A232 – Zinc cobalt black plating
A233 – Zinc cobalt green plating
A239 – Zinc cobalt black plating, VG approved
A240 – Zinc Nickel plating, blue grey plating
F42 – less grommet and backshell
F0 – less contacts, contacts to be ordered separately, see pages 54-55

## Important!

VG contact arrangements are restricted. Only those layouts listed in VG95234 standard are allowed. See the following pages for VG permitted layouts and contact arrangements.

Further details about contact terminations / wire ranges can be found on pages 54-59.

## With Spring Washer and Friction Ring

**These connectors feature a spring washer and a friction ring under the coupling nut.**

### Advantage

Improved resistance to vibration

### How to order

Delete “31” from standard part number and then insert “W” after Class E, F or R.

Example: CA06EW10SL-3P-B-14

The connectors acc. to VG95234 are generally delivered with spring washer.

## Additional Connector Options

**CA3100E-B-02/03/06**
Adapter for heat shrink boot

**CA3100E-B-13/14/15**
Adapter for shielded cables

**CA02L-B**
Receptacle with PCB solder contacts

**CA20L-B**
Rear mount receptacle with PCB solder contacts

**CA06EH***
H stands for High temperature FKM insulator and sealing material

**CA07A-B**
Jam nut receptacle

**CA00EP-B-TL***
TINEL-LOCK adapter

**CA06EW-B-TLXX***
TINEL-LOCK adapter

**CA06PG/ME**
PG or Metric gland adapter

*Consult factory for availability

Dimensions shown in mm
Specifications and dimensions subject to change

## Contact Arrangements

| View on Mating face of Pin Insulator | No. of Contacts | Contact arrangement Contact size VG | CA | Service rating | Insulator position* N | V | W | X | Y | Z | Position | Special polarization | Insulator (g) including contacts Pin | Socket |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | **10SL-3** 15S | **10SL-3** 16S | A | 0 | – | – | – | – | – | – | – | 6 | 9 |
| | 2 | **10SL-4** 15S | **10SL-4** 16S | A | 0 | – | – | – | – | – | – | – | 4 | 6 |
| ♦ | 2 | – | **12S-3** 16S | A | 0 | 100 | 70 | 145 | 215 | 290 | – | – | 4 | 6 |
| | 1 | – | **12S-4** 16S | D | 0 | – | – | – | – | – | – | – | 3 | 4,5 |
| | 4 | – | **12SA10** 16S | Instr. | 0 | – | – | – | – | – | 3 8 | 110 250 | 6 | 8 |
| | 3 | – | **14S-1** 16S | A | 0 | – | – | – | – | – | – | – | 6 | 9 |
| | 4 | – | **14S-2** 16S | Instr. | 0 | – | – | 120 | 240 | – | – | – | 7 | 11 |
| | 1 | – | **14S-4** 16S | D | 0 | – | – | – | – | – | – | – | 4 | 7 |
| | 5 | – | **14S-5** 16S | Instr. | 0 | – | – | 110 | – | – | – | – | 9 | 13 |
| | 6 | **14S-6** 15S | **14S-6** 16S | Instr. | 0 | – | – | – | – | – | – | – | 11 | 15 |
| ♦ | 3 | **14S-7** 15S | **14S-7** 16S | A | 0 | – | 90 | 180 | 270 | – | | – | 6 | 9 |
| | 2 | – | **14S-9** 16S | Instr. | 0 | – | 70 | 145 | 215 | 290 | – | – | 5 | 18 |
| | 7 | – | **14SA7** 16S | Instr. | 0 | – | – | – | – | – | – | – | 10 | 15 |
| ♦ | 7 | **16S-1** 15S | **16S-1** 16S | A | 0 | – | 80 | – | – | 280 | – | – | 4 | 19 |
| | 2 | **16S-4** 15S | **16S-4** 16S | D | 0 | – | 35 | 110 | 250 | 325 | – | – | 7 | 10 |
| ♦ | 3 | – | **16S-5** 16S | A | 0 | – | 70 | 145 | 215 | 290 | – | – | 8 | 12 |
| | 5 | – | **16S-8** 16S | A | 0 | – | – | 170 | 265 | – | – | – | 10 | 15 |

♦ 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.
* Attention: Connectors according to VG95234 are generally available with insert positions X and Y only.

Dimensions shown in mm
Specifications and dimensions subject to change

| View on Mating face of Pin Insulator | No. of Contacts | Contact arrangement Contact size VG | CA | Service rating | Insulator position* N | V | W | X | Y | Z | Position | Special polarization | Insulator (g) including contacts Pin | Socket |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3<br>2<br>1 | **16-7**<br>15<br>100 | **16-7**<br>16<br>8 | A | 0 | – | 80 | 110 | 250 | 280 | – | – | 16 | 25 |
| | 4<br>2<br>2 | – | **16-9**<br>12<br>16 | A | 0 | – | 35 | 110 | 250 | 325 | – | – | 13 | 20 |
| ♦ | 3 | **16-10**<br>25 | **16-10**<br>12 | A | 0 | – | 90 | 180 | 270 | – | – | – | 17 | 24 |
| | 2 | – | **16-11**<br>12 | A | 0 | – | 35 | 110 | 250 | 325 | – | – | 11 | 17 |
| | 1 | **16-12**<br>160 | **16-12**<br>4 | A | 0 | – | – | – | – | – | – | – | 24 | 28 |
| | 2 | **16A11**<br>25 (socket)<br>25A (pin) short | **16A11**<br>12 | A | 0 | – | 35 | 110 | 250 | 325 | – | – | 11 | 17 |
| ♦ | 10 | **18-1**<br>15 | **18-1**<br>16 | A (B, C, F, G) Instr. (all others) | 0 | – | 70 | 145 | 215* | 290 | – | – | 24 | 37 |
| | 2 | – | **18-3**<br>12 | D | 0 | – | 35 | 110 | 250 | 325 | – | – | 13 | 22 |
| | 4 | – | **18-4**<br>16 | D | 0 | – | 35 | 110 | 250 | 325 | – | – | 19 | 30 |
| | 3<br>2<br>1 | – | **18-5**<br>12<br>16 | D | 0 | – | 80 | 110 | 250 | 280 | – | – | 15 | 25 |
| | 1 | – | **18-6**<br>4 | D | 0 | – | – | – | – | – | – | – | 24 | 32 |
| | 1 | – | **18-7**<br>8 | D | 0 | – | – | – | – | – | – | – | 16 | 25 |
| | 8<br>1<br>7 | – | **18-8**<br>12<br>16 | A | 0 | – | 70 | – | – | 290 | – | – | 18 | 30 |
| | 7<br>2<br>5 | **18-9**<br>25<br>15 | **18-9**<br>12<br>16 | Instr. | 0 | – | 80 | 110 | 250 | 280 | – | – | 18 | 30 |
| | 4 | – | **18-10**<br>12 | A | 0 | – | – | 120 | 240 | – | – | – | 13 | 22 |
| | 5 | **18-11**<br>25 | **18-11**<br>12 | A | 0 | – | – | 170 | 265 | – | – | – | 31 | 40 |
| | 6 | – | **18-12**<br>16 | A | 0 | – | 80 | – | – | 280 | – | – | 15 | 25 |

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.

* Attention: Connectors according to VG95234 are generally available with insert positions X and Y only.

Dimensions shown in mm

Specifications and dimensions subject to change

| View on Mating face of Pin Insulator | No. of Contacts | Contact arrangement Contact size VG | CA | Service rating | Insulator position* N | V | W | X | Y | Z | Position | Special polarization | Insulator (g) including contacts Pin | Socket |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ♦ | 4<br>1<br>3 | **18-13**<br>60<br>25 | **18-13**<br>8<br>12 | A | 0 | – | 80 | 110 | 250 | 280 | – | – | 15 | 24 |
| | 7<br>2<br>5 | – | **18-17**<br>12<br>16 | Instr. | 0 | – | – | – | – | – | 12 | 100 | 15 | 23 |
| | 10 | – | **18-19**<br>16 | A | 0 | – | – | 120 | 240 | – | – | – | 19 | 31 |
| | 5 | – | **18-20**<br>16 | A | 0 | – | 90 | 180 | 270 | | – | – | 15 | 25 |
| | 3 | – | **18-21**<br>12 | A | 0 | – | – | – | – | – | – | – | 17 | 28 |
| | 3 | – | **18-22**<br>16 | D | 0 | – | 70 | 145 | 215 | 290 | – | – | 10 | 20 |
| | 1 | **20-2**<br>500 | **20-2**<br>0 | D | 0 | – | – | – | – | – | – | – | 46 | 55 |
| | 3 | – | **20-3**<br>12 | D | 0 | – | 70 | 145 | 215 | 290 | – | – | 28 | 42 |
| | 4 | – | **20-4**<br>12 | D | 0 | – | 45 | 110 | 250 | – | – | 250<br>(20A37) | 24 | 40 |
| | 3 | – | **20-6**<br>16 | D | 0 | – | – | – | – | – | – | – | 22 | 36 |
| | 8 | – | **20-7**<br>16 | A (C, D, E, F) D (A, B, H, G) | 0 | – | 80 | 110 | 250 | 280 | – | – | 28 | 42 |
| | 6<br>2<br>4 | **20-8**<br>100<br>15 | **20-8**<br>8<br>16 | Instr. | 0 | – | 80 | 110 | 250 | 280 | – | – | 37 | 49 |
| | 13 | – | **20-11**<br>16 | Instr. | 0 | – | – | – | – | – | – | – | 25 | 41 |
| | 5<br>3<br>2 | – | **20-14**<br>12<br>8 | A | 0 | – | 80 | 110 | 250 | 280 | – | – | 22 | 39 |
| | 7 | – | **20-15**<br>12 | A | 0 | – | 80 | – | – | 280 | – | – | 27 | 46 |
| | 9<br>2<br>7 | – | **20-16**<br>12<br>16 | A | 0 | – | 80 | 110 | 250 | 280 | – | – | 19 | 32 |
| | 6<br>5<br>1 | – | **20-17**<br>12<br>16 | A | 0 | – | 90 | 180 | 270 | – | – | – | 20 | 33 |

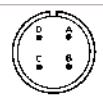
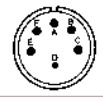
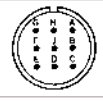
♦ Attention: For all insert rotations, it is possible for miss-mating to occur. It is the responsibility of the customer to ensure they have selected correctly.
* Attention: Connectors according to VG95234 are generally available with insert positions X and Y only.

Dimensions shown in mm
Specifications and dimensions subject to change

| View on Mating face of Pin Insulator | No. of Contacts | Contact arrangement Contact size VG | CA | Service rating | Insulator position* N | V | W | X | Y | Z | Position | Special polarization | Insulator (g) including contacts Pin | Socket |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9<br>3<br>6 | – | **20-18**<br>12<br>16 | A | – | – | 35 | 110 | 250 | 325 | – | – | 19 | 32 |
| | 3 | – | **20-19**<br>8 | A | 0 | – | 90 | 180 | 270 | – | – | – | 33 | 46 |
| | 6<br>3<br>3 | **20-22**<br>15<br>8 | **20-22**<br>8<br>16 | A | – | – | 80 | ♦<br>110 | ♦<br>250 | 280 | – | – | 37 | 49 |
| | 2 | – | **20-23**<br>8 | A | – | – | 35 | 110 | 250 | 325 | – | – | 25 | 35 |
| | 4<br>2<br>2 | – | **20-24**<br>8<br>16 | A | 0 | – | 35 | 110 | 250 | 325 | – | – | 40 | 53 |
| | 14 | – | **20-27**<br>16 | A | 0 | – | 35 | 110 | 250 | 325 | – | – | 26 | 42 |
| | 17 | – | **20-29**<br>16 | A | 0 | – | 80 | – | – | 280 | – | – | 29 | 47 |
| | 11 | – | **20-33**<br>16 | A | 0 | – | – | – | – | 2<br>3<br>17 | 260<br>110<br>130 | – | 23 | 38 |
| | 9 | **20A9**<br>25 | **20A9**<br>12 | Instr.<br>(all others) | 0 | – | – | 110 | 250 | – | – | – | 21 | 35 |
| | 24 | – | **20A24**<br>20 | – | 0 | – | – | – | – | – | – | – | 42 | 58 |
| | 19 | **20A48**<br>15 | **20A48**<br>16 | Instr. | 0 | – | – | 80 | 280 | – | – | – | 30 | 50 |
| | 2 | – | **22-1**<br>8 | D | 0 | – | 35 | 110 | 250 | 325 | – | – | 28 | 42 |
| | 3 | **22-2**<br>8 | **22-2**<br>8 | D | 0 | – | 70 | 145 | 215 | 290 | – | – | 35 | 50 |
| | 4<br>2<br>2 | – | **22-4**<br>8<br>12 | A | – | – | 5 | 110 | 250 | 325 | – | – | 34 | 48 |
| | 6<br>2<br>4 | – | **22-5**<br>12<br>16 | D | – | – | 35 | 110 | 250 | 325 | – | – | 23 | 38 |
| | 1 | – | **22-7**<br>0 | E | 0 | – | – | – | – | – | – | – | 45 | 57 |

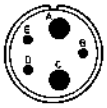
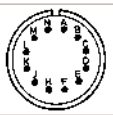
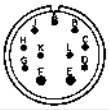
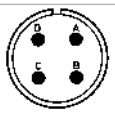
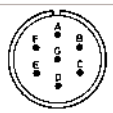
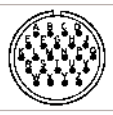
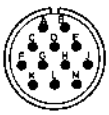
♦ Attention: For all insert rotations, it is possible for miss-mating to occur. It is the responsibility of the customer to ensure they have selected correctly.
* Attention: Connectors according to VG95234 are generally available with insert positions X and Y only.

Dimensions shown in mm
Specifications and dimensions subject to change

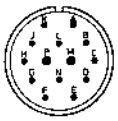
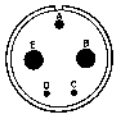
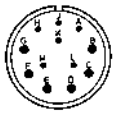
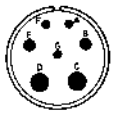
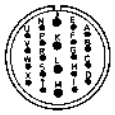
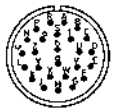
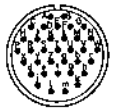
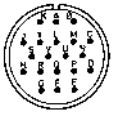
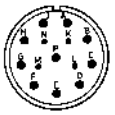
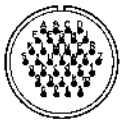
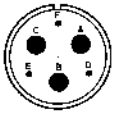
| View on Mating face of Pin Insulator | No. of Contacts | Contact arrangement<br>Contact size<br>VG | CA | Service rating | Insulator position*<br>N | V | W | X | Y | Z | Position | Special polarization | Insulator (g) including contacts<br>Pin | Socket |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | – | **22-8**<br>12 | E | – | – | 35 | 110 | 250 | 325 | – | – | 18 | 28 |
| | 3 | – | **22-9**<br>12 | E | 0 | – | 70 | 145 | 215 | 290 | – | – | 21 | 32 |
|  | 4 | – | **22-10**<br>16 | E | – | – | 35 | 110 | 250 | 325 | – | – | 17 | 31 |
| | 5<br>2<br>3 | **22-12**<br>100<br>15 | **22-12**<br>8<br>16 | D | 0 | – | 80 | 110 | 250 | 280 | – | – | 28 | 42 |
| ♦ | 19 | **22-14**<br>15 | **22-14**<br>16 | A | 0 | – | 80 | – | – | 280 | – | – | 30 | 50 |
|  | 6<br>5<br>1 | – | **22-15**<br>12<br>16 | A (A, B, C, E, F) E (D) | 0 | – | 80 | 110 | 250 | 280 | – | – | 30 | 50 |
| | 9<br>3 | – | **22-16**<br>12<br>16 | A | 0 | – | 80 | 110 | 250 | 280<br>– | – | – | 28 | 45 |
| | 14 | – | **22-19**<br>16 | A | 0 | – | 80 | 110 | 250 | 280 | – | – | 28 | 47 |
|  | 9<br>3<br>6 | – | **22-20**<br>16 | A | 0 | – | 35 | 110 | 250 | 325 | – | – | 22 | 39 |
| | 3<br>2<br>1 | – | **22-21**<br>16<br>0 | A | 0 | – | 80 | 110 | 250 | 280<br>– | – | – | 49 | 58 |
| | 4 | **22-22**<br>100 | **22-22**<br>8 | A | 0 | – | – | 110 | 250 | – | – | – | 42 | 58 |
| | 8 | – | **22-23**<br>12 | D (H)<br>A (all others) | 0 | – | 35 | – | 250 | – | – | – | 34 | 54 |
| | 9<br>1<br>8 | **22-27**<br>60<br>15 | **22-27**<br>8<br>16 | A (A to H) | 0 | – | 80 | – | 250 | 280 | – | – | 21 | 34 |
| | 7 | – | **22-28**<br>12 | A | – | – | 80 | – | – | 280 | – | – | 33 | 50 |
| | 4 | **22B22**<br>60 | – | A | 0 | – | – | 110 | 250 | – | – | – | 42 | 58 |
| | 7 | – | **24-2**<br>12 | D | 0 | – | 80 | – | – | 280 | – | – | 33 | 53 |

♦ 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.
* Attention: Connectors according to VG95234 are generally available with insert positions X and Y only.

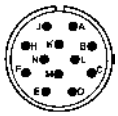
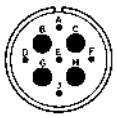
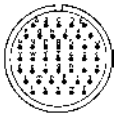
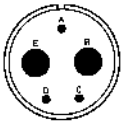
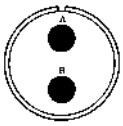
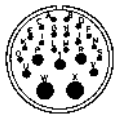
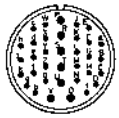
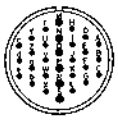
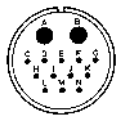
Dimensions shown in mm
Specifications and dimensions subject to change

| View on Mating face of Pin Insulator | No. of Contacts | Contact arrangement Contact size VG | CA | Service rating | Insulator position N | V | W | X | Y | Z | Position | Special polarization | Insulator (g) including contacts Pin | Socket |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4<br>1<br>3 | – | **24-4**<br>0<br>16 | D | – | – | 80 | 110 | 250 | 280 | – | – | 51 | 63 |
| | 16 | – | **24-5**<br>16 | A | – | – | 80 | 110 | 250 | 280 | – | – | 30 | 54 |
| | 16<br>2<br>14 | – | **24-7**<br>12<br>16 | A | 0 | – | 80 | 110 | 250 | 280 | – | – | 45 | 65 |
| | 2 | **24-9**<br>4 | **24-9**<br>4 | A | 0 | – | 35 | 110 | 250 | 325 | – | – | 45 | 60 |
| | 7 | **24-10**<br>100 | **24-10**<br>8 | A | 0 | – | 80 | – | – | 280 | – | – | 65 | 85 |
| | 9<br>3<br>6 | **24-11**<br>100/8<br>25/12 | **24-11**<br>8<br>12 | A | 0 | – | 35 | 110 | 250 | 325 | – | – | 55 | 75 |
|  | 5<br>2<br>3 | **24-12**<br>4<br>12 | **24-12**<br>4<br>12 | A | 0 | – | 80 | 110 | 250 | 280 | – | – | 60 | 80 |
|  | 12 | – | **24-19**<br>16 | A | 0 | – | – | – | – | – | – | – | 28 | 47 |
|  | 11<br>2<br>9 | – | **24-20**<br>12<br>16 | D | 0 | – | 80 | 110 | 250 | 280 | – | – | 40 | 60 |
|  | 4 | – | **24-22**<br>8 | D | 0 | – | 45 | 110 | 250 | | – | – | 44 | 61 |
|  | 7 | – | **24-27**<br>16 | E | – | – | 80 | – | – | 280 | – | – | 21 | 37 |
|  | 24 | **24-28**<br>15 | **24-28**<br>16 | Instr. | 0 | – | 80 | 110 | 250 | 280 | – | – | 40 | 65 |
|  | 12 | – | **24A24**<br>12 | A | –<br>–<br>–<br>– | –<br>–<br>–<br>– | –<br>–<br>–<br>– | –<br>–<br>–<br>– | –<br>–<br>–<br>– | –<br>–<br>–<br>– | 2<br>4<br>9<br>12 | 260<br>80<br>280<br>100 | 46 | 71 |
| | 28 | – | **24A28**<br>16 | Instr. | – | – | 65 | 146 | 235 | – | – | – | 42 | 75 |
| | 19<br>13<br>5<br>1 | | **24A51**<br>16<br>12<br>8 | A | – | – | – | – | – | – | 14 | 30 | 60 | 70 |

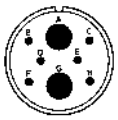
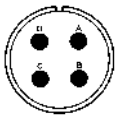
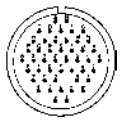
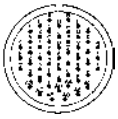
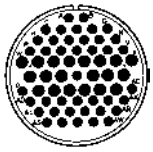
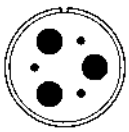
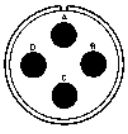
Dimensions shown in mm
Specifications and dimensions subject to change

| View on Mating face of Pin Insulator | No. of Contacts | Contact arrangement<br>Contact size<br>VG | CA | Service rating | Insulator position<br>N | V | W | X | Y | Z | Position | Special polarization | Insulator (g) including contacts<br>Pin | Socket |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 14<br>12<br>2 | – | **28-2**<br>16<br>12 | D | – | – | 35 | 110 | 250 | 325 | – | – | 43 | 61 |
|  | 5<br>2<br>2<br>1 | – | **28-5**<br>4<br>16<br>12 | D | – | – | 35 | 110 | 250 | 325 | – | – | 60 | 70 |
|  | 12<br>6<br>6 | – | **28-9**<br>16<br>12 | D | – | – | 80 | 110 | 250 | 280 | – | – | 46 | 65 |
|  | 7<br>2<br>2<br>3 | – | **28-10**<br>4<br>8<br>12 | A (= A, B, C, D, E, F)<br>D (= G) | – | – | 80 | 110 | 250 | 280 | – | – | 80 | 91 |
|  | 22<br>4<br>18 | **28-11**<br>25<br>15 | **28-11**<br>12<br>16 | A | 0 | – | 80 | 110 | 250 | 280 | – | – | 65 | 110 |
|  | 26 | – | 28-12<br>16 | A | 0 | – | 90 | 180 | 270 | – | – | – | 47 | 77 |
|  | 35 | – | **28-15**<br>16 | A | 0 | – | 80 | 110 | 250 | 280 | – | – | 54 | 90 |
|  | 20 | – | **28-16**<br>16 | A (A-L)<br>D (M, N, P) | 0 | – | 80 | 110 | 250 | 280 | – | – | 41 | 68 |
|  | 14<br>10<br>4 | **28-20**<br>25<br>15 | **28-20**<br>12<br>16 | A | 0 | – | 80 | 110 | 250 | 280 | – | – | 65 | 110 |
|  | 37 | **28-21**<br>15 | **28-21**<br>16 | A | 0 | – | 80 | 110 | 250 | 280 | – | – | 58 | 93 |
| | For this Layout, rotations W and Z are only valid for the commercial CA Bayonet and not for the VG95234 versions. | | | | | | | | | | | | | |
|  | 6<br>3<br>3 | **28-22**<br>160/4<br>15/16 | **28-22**<br>4<br>16 | D | 0 | – | 70 | 145 | 215 | 290 | – | – | 80 | 120 |
| | All alternative insert position as above are permitted for VG95234 types. | | | | | | | | | | | | | |

Dimensions shown in mm
Specifications and dimensions subject to change

| View on Mating face of Pin Insulator | No. of Contacts | Contact arrangement Contact size VG | CA | Service rating | Insulator position N | V | W | X | Y | Z | Position | Special polarization | Insulator (g) including contacts Pin | Socket |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 12 | – | **28-51**<br>12 | D | – | – | 80 | 135 | 195 | – | – | – | 57 | 77 |
|  | 9<br>4<br>5 | **28A16**<br>4<br>15 | **28A16**<br>4<br>16 | A (e)<br>Instr. | 0<br>– | –<br>–<br>–<br>– | –<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 | 100 | 135 |
|  | 43 | – | **28A51**<br>16 | A | 0<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>– | –<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 | 64 | 107 |
| | 28<br>9<br>19 | **28A63**<br>25<br>15 | **28A63**<br>12<br>16 | A | 0 | – | – | 100 | 260 | – | – | – | 85 | 135 |
|  | 5<br>2<br>3 | **32-1**<br>500/0<br>25/12 | **32-1**<br>0<br>12 | E (A)<br>D (all others) | 0 | – | 80 | 110 | 250 | 280 | – | – | 130 | 155 |
|  | 2 | – | **32-5**<br>0 | D | 0 | – | 35 | 110 | 250 | 325 | – | – | 86 | 114 |
|  | 23<br>2<br>3<br>2<br>16 | **32-6**<br>160/4<br>60/8<br>25/12<br>15/16 | **32-6**<br>4<br>8<br>12<br>16 | A | 0 | – | 80 | 110 | 250 | 280 | – | – | 130 | 170 |
|  | 35<br>7<br>28 | **32-7**<br>25<br>15 | **32-7**<br>12<br>16 | Instr.<br>(A, B, U, I.)<br>A (all others) | 0 | – | 80 | 125 | 235 | 280 | – | – | 110 | 160 |
|  | 30<br>6<br>24 | – | **32-8**<br>12<br>16 | A | 0 | – | 80 | 125 | 235 | 280 | – | – | 105 | 155 |
|  | 14<br>12<br>2 | – | **32-9**<br>16<br>4 | D | 0 | – | 80 | 110 | 250 | 280 | – | – | 79 | 130 |

Dimensions shown in mm
Specifications and dimensions subject to change

| View on Mating face of Pin Insulator | No. of Contacts | Contact arrangement Contact size VG | CA | Service rating | Insulator position N | V | W | X | Y | Z | Position | Special polarization | Insulator (g) including contacts Pin | Socket |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 23<br>5<br>18 | – | **32-13**<br>12<br>16 | D | 0 | – | 80 | 110 | 250 | 280 | – | – | 95 | 145 |
|  | 8<br>2<br>6 | **32-15**<br>0<br>25 | **32-15**<br>0<br>12 | D | 0 | – | 35 | 110 | 250 | 325 | – | – | 140 | 165 |
|  | 4 | – | **32-17**<br>4 | D | 0 | – | 45 | 110 | 250 | – | – | – | 80 | 116 |
| | 54 | – | **32A10**<br>16 | A | –<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>– | –<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 | 89 | 132 |
|  | 47 | – | **32A47**<br>16 | –<br>A | –<br>–<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>–<br>– | –<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 | 73 | 120 |
|  | 55 | – | **32A55**<br>16 | A | – | – | 80 | 110 | 250 | 280 | – | – | 90 | 134 |
|  | 61<br>20<br>41 | **32A69**<br>15<br>10 | **32A69**<br>16<br>20 | Instr. | 0 | – | – | 110 | 250 | – | – | – | 49 | 84 |
| | Not for through-bulkhead receptacle C1 / C2. No solder pot contacts available for #10/20 contacts. | | | | | | | | | | | | | |
|  | 6<br>3<br>3 | **36-3**<br>500/0<br>25/12 | **36-3**<br>0<br>12 | D | 0 | – | 70 | 145 | 215 | 290 | – | – | 165 | 200 |
| | All alternative insert positions as above are permitted for VG95234 types. | | | | | | | | | | | | | |
|  | 4 | **36-5**<br>500/0 | **36-5**<br>0 | A | 0 | – | – | 120 | 240 | – | – | – | 152 | 181 |

Dimensions shown in mm
Specifications and dimensions subject to change



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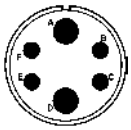
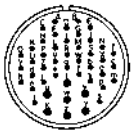
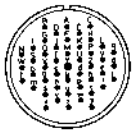
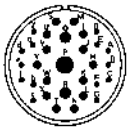
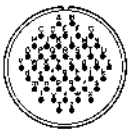
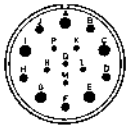
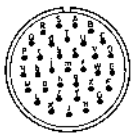
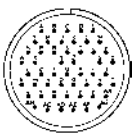
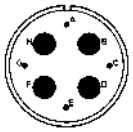
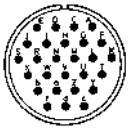
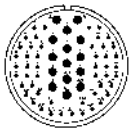
| View on Mating face of Pin Insulator | No. of Contacts | Contact arrangement Contact size VG | CA | Service rating | Insulator position N | V | W | X | Y | Z | Position | Special polarization | Insulator (g) including contacts Pin | Socket |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 6<br>4<br>2 | **36-6**<br>4<br>0 | **36-6**<br>4<br>0 | A | 0 | – | 35 | 110 | 250 | 25 | – | – | 155 | 173 |
|  | 47<br>7<br>40 | – | **36-7**<br>12<br>16 | A | – | – | 80 | 110 | 250 | 280 | – | – | 92 | 144 |
|  | 47<br>1<br>46 | – | **36-8**<br>12<br>16 | A | – | – | 80 | 110 | 250 | 280 | – | – | 80 | 132 |
|  | 31<br>14<br>14<br>2<br>1 | – | **36-9**<br>16<br>12<br>8<br>4 | A | 0 | – | 80 | 125 | 235 | 280 | – | – | 116 | 159 |
|  | 48 | **36-10**<br>15 | **36-10**<br>16 | A | 0 | – | 80 | 125 | 235 | 280 | – | – | 79 | 133 |
|  | 16<br>5<br>5<br>6 | – | **36-14**<br>8<br>12<br>16 | D | | – | – | – | – | – | – | – | 150 | 230 |
|  | 35 | – | **36-15**<br>16 | D (m)<br>A (all others) | 0 | – | 60 | 125 | 245 | 305 | – | – | 70 | 111 |
|  | 52 | – | **36A34**<br>16 | A | –<br>–<br>–<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>–<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<br>20 | 260<br>110<br>80<br>250<br>280<br>100<br>220 | 83 | 139 |

Dimensions shown in mm
Specifications and dimensions subject to change

| View on Mating face of Pin Insulator | No. of Contacts | Contact arrangement Contact size VG | CA | Service rating | Insulator position* N | V | W | X | Y | Z | Position | Special polarization | Insulator (g) including contacts Pin | Socket |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 8<br>4<br>4 | **36A35**<br>15<br>0 | **36A35**<br>16<br>0 | A | –<br>–<br>–<br>– | –<br>–<br>–<br>– | –<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 | 172 | 183 |
|  | 27 | – | **36A46**<br>12 | A | –<br>–<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>–<br>– | –<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 | 112 | 154 |
| | 39<br>8<br>31 | – | **36A98**<br>8<br>16 | A | 0 | – | – | 110 | – | – | – | – | 160 | 140 |
| ♦  | 65<br>15<br>50 | – | **36A99**<br>16<br>20* | Instr. | – | – | 30 | 135 | – | – | – | – | 80 | 121 |
| | No solder pot contacts available for #10/20 contacts. | | | | | | | | | | | | | |

*Reduced contact termination 0,3 $mm^2$.

♦ 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.
* Attention: Connectors according to VG95234 are generally available with insert positions X and Y only.

## Alternative Insert Positions

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

Connectors according to VG95234 are generally available with insert positions X and Y only.

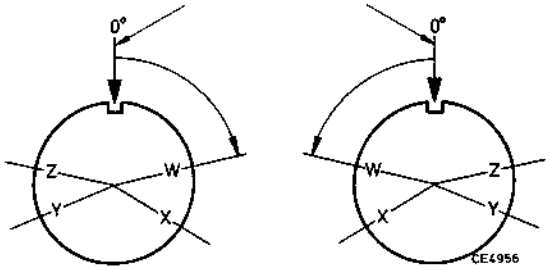
Tolerances:
# 10SL-20: ± 2°

# 22-36: ± 1,5°

# 32A69: ± 1°

# 36A99: ± 0,5°

**Normal position**




**Pin**
Mating face

**Socket**
Mating face

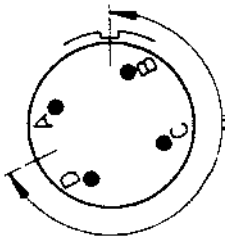
## Special Insert Positions

A number of layouts allow for additional insert alternations. These special insert alternations are identified by a position number as shown in the table below.

| Position | Polarization |
|---|---|
| 2 | 260° |
| 3 | 110° |
| 4 | 80° |
| 5 | use pos. 3 |
| 6 | 85° |
| 8 | 250° |
| 9 | 280° |
| 11 | 105° |
| 12 | 100° |
| 13 | use pos. 8 |
| 14 | 30° |
| 15 | 45° |
| 16 | 120° |
| 17 | 130° |
| 18 | 150° |
| 19 | 195° |
| 20 | 220° |
| 21 | 255° |
| 22 | 290° |
| 23 | 165° |
| 24 | 330° |
| 25 | 235° |
| 26 | 125° |

### Positions

View shows mating side of pin or termination side of socket.




Insert positions are added without hyphen directly behind the contact type.

Example:
CA3106F32A10P[2]-B-01

Dimensions shown in mm
Specifications and dimensions subject to change

## Contact Arrangements

| Contact arrangement | No. of Contacts | Contact size 0 500 | 4 160 | 8 100 60 | 12 25 | 16 15 | 20 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 | | | |
| 22B22 | 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 0 500 | 4 160 | 8 100 60 | 12 25 | 16 15 | 20 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 | |
| | | | | | | | |
| | | | | | | | |

Dimensions shown in mm
Specifications and dimensions subject to change

| Contact arrangement | No. of Contacts | Contact size 0 500 | 4 160 | 8 100 60 | 12 25 | 16 15 | 20 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 | |

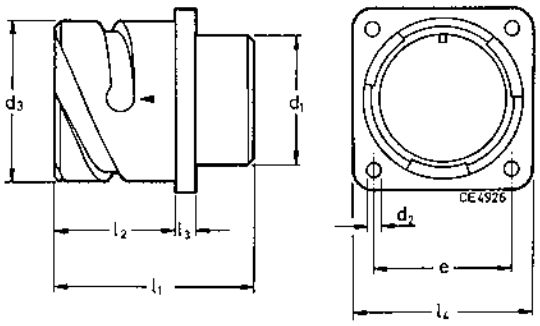
| Contact arrangement | No. of Contacts | Contact size 0 500 | 4 160 | 8 100 60 | 12 25 | 16 15 | 20 10 |
|---|---|---|---|---|---|---|---|
| 28A51 | 43 | | | | | 43 | |
| | | | | | | | |
| 32A47 | 47 | | | | | 47 | |
| 36-7 | 47 | | | | 7 | 40 | |
| 36-8 | 47 | | | | 1 | 46 | |
| | | | | | | | |
| 36-10 | 48 | | | | | 48 | |
| | | | | | | | |
| 36A34 | 52 | | | | | 52 | |
| | | | | | | | |
| 32A10 | 54 | | | | | 54 | |
| | | | | | | | |
| 32A55 | 55 | | | | | 55 | |
| | | | | | | | |
| 32A69 | 61 | | | | | 20 | 41 |
| | | | | | | | |
| 36A99 | 65 | | | | | 15 | 50 |

Dimensions shown in mm
Specifications and dimensions subject to change

## Box Mounting Receptacle - Front Mount

**VG95234 – Style A**
**CA 3102E-B, additional modifications on page 12.**
Description: Receptacle for front panel mounting with square flange.

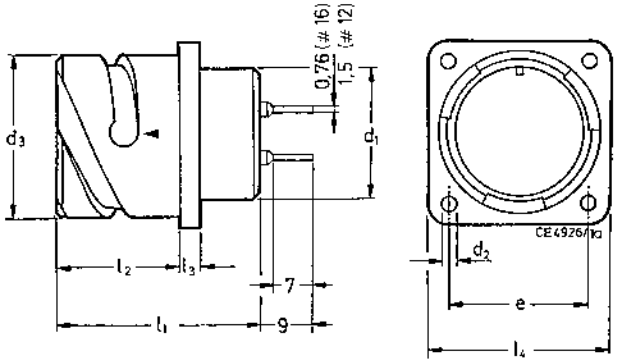
Threaded holes in flange not possible.




| VG95234 Part no. | Cannon Part no. | $d_1$ max. | $d_2$ H13* | $d_3$ -0,15 | $l_1$ ±0,3 | $l_2$ ±0,4 | $l_3$ ±0,2 | $l_4$ ±0,3 | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|
| VG95234A-10SL-* | CA3102E10SL-**-B | 16,2 | 3,2 | 18,2 | 24,7 | 14,2 | 2,8 | 25,4 | 12 |
| – | CA3102E12S-**-B | 16,2 | 3,2 | 21,4 | 24,7 | 14,2 | 3,2 | 28,0 | 15 |
| VG95234A-14S-* | CA3102E14S-**-B | 19,2 | 3,2 | 24,6 | 24,7 | 14,2 | 3,2 | 30,0 | 17 |
| VG95234A-16S-* | CA3102E16S-**-B | 22,4 | 3,2 | 27,4 | 24,7 | 14,2 | 3,2 | 32,5 | 19 |
| VG95234A-16-* | CA3102E16-**-B | 22,4 | 3,2 | 27,4 | 33,8 | 19,0 | 3,2 | 32,5 | 22 |
| VG95234A-18-* | CA3102E18-**-B | 25,6 | 3,2 | 30,8 | 33,8 | 19,0 | 4,0 | 35,0 | 28 |
| VG95234A-20-* | CA3102E20-**-B | 29,0 | 3,2 | 34,2 | 33,8 | 19,0 | 4,0 | 38,0 | 33 |
| VG95234A-22-* | CA3102E22-**-B | 32,2 | 3,2 | 37,4 | 33,8 | 19,0 | 4,0 | 41,0 | 38 |
| VG95234A-24-* | CA3102E24-**-B | 35,3 | 3,7 | 40,9 | 33,8 | 20,6 | 4,0 | 44,5 | 46 |
| VG95234A-28-* | CA3102E28-**-B | 41,4 | 3,7 | 46,7 | 33,8 | 20,6 | 4,0 | 50,8 | 52 |
| VG95234A-32-* | CA3102E32-**-B | 47,8 | 4,3 | 53,4 | 33,8 | 22,2 | 4,0 | 57,0 | 64 |
| VG95234A-36-* | CA3102E36-**-B | 52,6 | 4,3 | 59,6 | 33,8 | 22,2 | 4,0 | 63,5 | 80 |

[1] Weight without insulator.
*Drilling tolerances according to DIN ISO 286.

**CA02L-B, additional modifications on page 12.**
Description: Receptacle for front panel mounting with solder pin contacts to solder into printed circuits. All pattern drawings upon request. For all other dimensions see above table. For contact arrangements with #16 and #12 contacts only.

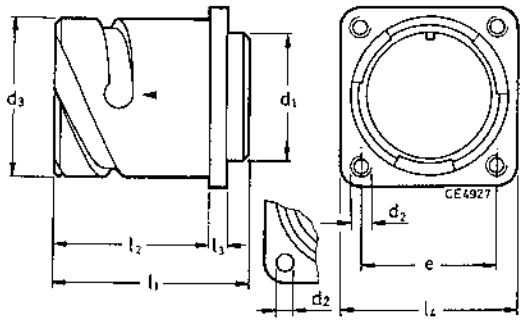



Dimensions shown in mm
Specifications and dimensions subject to change

## Box Mounting Receptacle - rear mount

**VG95234 Style BI (with threaded holes in flange). CA3102E-B and modifications, eg -04, -I09 or – I I I**
Description: Receptacle with square flange for rear Panel Mounting with thread holes.

**VG95234 Style B2 (with through holes in flange). CA3102E-B and modification -05, additional modifications on page 12.**
Description: Receptacle with square flange for rear Panel Mounting with through holes.

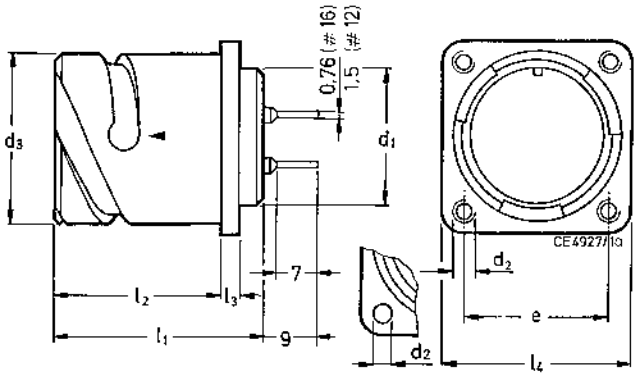


**Style B2**

| VG95234 Part no. | Cannon Part no. | $d_1$ max. | $d_2$ B1 H13* | B2 | $d_3$ -0,15 | $l_1$ ±0,3 | $l_2$ ±0,4 | $l_3$ ±0,2 | $l_4$ ±0,3 | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|---|
| VG95234BX-10SL-* | CA3102E10SL-*B-*** | 16,2 | M4 | 3,2 | 18,2 | 24,7 | 18,2 | 2,8 | 25,4 | 14 |
| – | CA3102E12S-*B-*** | 16,2 | M4 | 3,2 | 21,4 | 24,7 | 18,2 | 3,2 | 28,0 | 18 |
| VG95234BX-14S-* | CA3102E14S-*B-*** | 19,2 | M4 | 3,2 | 24,6 | 24,7 | 18,2 | 3,2 | 30,0 | 21 |
| CG95234BX-16S-* | CA3102E16S-*B-*** | 22,4 | M4 | 3,2 | 27,4 | 24,7 | 18,2 | 3,2 | 32,5 | 22 |
| VG95234BX-16-* | CA3102E16-*B-*** | 22,4 | M4 | 3,2 | 27,4 | 33,8 | 23,05 | 3,2 | 32,5 | 27 |
| VG95234BX-18-* | CA3102E18-*B-*** | 25,6 | M4 | 3,2 | 30,8 | 33,8 | 23,05 | 4,0 | 35,0 | 33 |
| VG95234BX-20-* | CA3102E20-*B-*** | 29,0 | M4 | 3,2 | 34,2 | 33,8 | 23,05 | 4,0 | 38,0 | 37 |
| VG95234BX-22-* | CA3102E22-*B-*** | 32,2 | M4 | 3,2 | 37,4 | 33,8 | 23,05 | 4,0 | 41,0 | 42 |
| VG95234BX-24-* | CA3102E24-*B-*** | 35,3 | M4 | 3,7 | 40,9 | 33,8 | 23,05 | 4,0 | 44,5 | 48 |
| VG95234BX-28-* | CA3102E28-*B-*** | 41,4 | M5 | 3,7 | 46,7 | 33,8 | 24,05 | 4,0 | 50,8 | 58 |
| VG95234BX-32-* | CA3102E32-*B-*** | 47,8 | M5 | 4,3 | 53,4 | 33,8 | 24,05 | 4,0 | 57,0 | 72 |
| VG95234BX-36-* | CA3102E36-*B-*** | 54,1 | M5 | 4,3 | 59,6 | 33,8 | 24,05 | 4,0 | 63,5 | 84 |

[1] Weight without insulator.
*Drilling tolerances according to DIN ISO 286.

**CA20L-B, additional modifications on page 12.**
Description: Receptacle for rear panel mounting with solder pin contacts to solder into printed circuits. All pattern drawings upon request. For all other dimensions see above table. For contact arrangements with #16 and #12 contacts only.



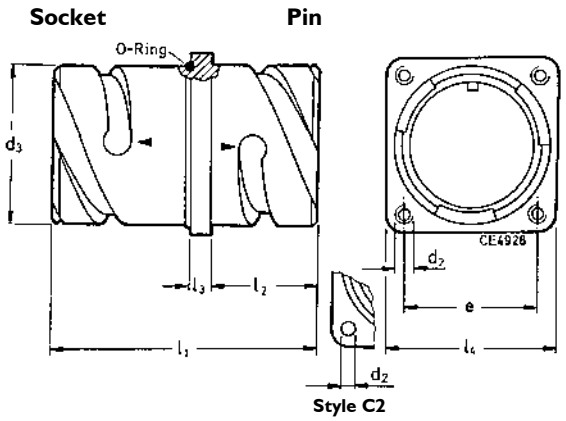
**Mod. -05**

Dimensions shown in mm
Specifications and dimensions subject to change

## Thru-Bulkhead Receptacle

**VG95234 – Style C1**
**TBF-B, additional modifications on page 12.**
Description: Bulkhead receptacle with mounting flange - with threaded holes.

**VG95234 – Style C2**
**TBF-B-05, additional modifications on page 12.**
Description: Bulkhead receptacle with mounting flange - with through holes.

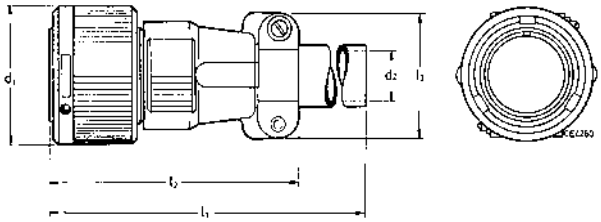



| VG95234 Part no. | Cannon Part no. | $d_2$ C1 | C2 H13* Ø | $d_2$ -0,15 | e ±0,1 | $l_1$ ±0,7 | $l_2$ ±0,3 | $l_3$ ±0,2 | $l_4$ ±0,3 | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|---|
| VG95234CX-10SL-* | TBF10SL-*B-*** | M4 | 3,2 | 18,2 | 18,2 | 37,5 | 14,2 | 2,8 | 25,4 | 17 |
| – | TBF12S-*B-*** | M4 | 3,2 | 21,4 | 20,6 | 37,5 | 14,2 | 3,2 | 28,0 | 24 |
| VG95234CX-14S-* | TBF14S-*B-*** | M4 | 3,2 | 24,6 | 23,0 | 37,5 | 14,2 | 3,2 | 30,0 | 29 |
| VG95234CX-16S-* | TBF16S-*B-*** | M4 | 3,2 | 27,4 | 24,6 | 37,5 | 14,2 | 3,2 | 32,5 | 34 |
| VG95234CX-16-* | TBF16-*B-*** | M4 | 3,2 | 27,4 | 24,6 | 51,4 | 19,0 | 3,2 | 32,5 | 41 |
| VG95234CX-18-* | TBF18-*B-*** | M4 | 3,2 | 30,8 | 27,0 | 51,4 | 19,0 | 4,0 | 35,0 | 49 |
| VG95234CX-20-* | TBF20-*B-*** | M4 | 3,2 | 34,2 | 29,4 | 51,4 | 19,0 | 4,0 | 38,0 | 56 |
| VG95234CX-22-* | TBF22-*B-*** | M4 | 3,2 | 37,4 | 31,8 | 51,4 | 19,0 | 4,0 | 41,0 | 61 |
| VG95234CX-24-* | TBF24-*B-*** | M4 | 3,7 | 40,9 | 34,9 | 51,4 | 20,6 | 4,0 | 44,5 | 65 |
| VG95234CX-28-* | TBF28-*B-*** | M5 | 3,7 | 46,7 | 39,7 | 51,4 | 20,6 | 4,0 | 50,8 | 76 |
| VG95234CX-32-* | TBF32-*B-*** | M5 | 4,3 | 53,4 | 44,5 | 51,4 | 22,2 | 4,0 | 57,0 | 92 |
| VG95234CX-36-* | TBF36-*B-*** | M5 | 4,3 | 59,6 | 49,2 | 51,4 | 22,2 | 4,0 | 63,5 | 103 |

*Drilling tolerances according to DIN ISO 286

## Straight Plug with cable clamp

**VG95234 – Style D**
**CA3106E–B, additional modifications on page 12.**
Description: Straight plug with endbell, cable clamp and telescoping bushing.




| VG95234 Part no. | Cannon Part no. | $d_1$ max. | $d_2$[2] max. | $l_1$ max. | $l_2$ max. | $l_3$ max. | $l_4$ max. | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|
| VG95234D-10SL-* | CA3106E10SL-**B-*** | 22,8 | 6,5 | 115 | 55 | 22,7 | 22,7 | 30 |
| – | CA3106E12S-**B-*** | 26,0 | 6,5 | 115 | 55 | 22,7 | 22,7 | 37 |
| VG95234D-14S-* | CA3106E14S-**B-*** | 29,2 | 9,0 | 115 | 60 | 27,5 | 27,5 | 44 |
| VG95234D-16S-* | CA3106E16S-**B-*** | 32,0 | 11,0 | 115 | 60 | 30,0 | 30,0 | 54 |
| VG95234D-16-* | CA3106E16-**B-*** | 32,0 | 11,0 | 120 | 70 | 30,0 | 30,0 | 62 |
| VG95234D-18-* | CA3106E18-**B-*** | 36,5 | 14,2 | 120 | 75 | 33,0 | 33,0 | 70 |
| VG95234D-20-* | CA3106E20-**B-*** | 39,9 | 15,8 | 120 | 75 | 37,5 | 37,5 | 85 |
| VG95234D-22-* | CA3106E22-**B-*** | 43,1 | 15,8 | 120 | 75 | 37,5 | 37,5 | 92 |
| VG95234D-24-* | CA3106E24-**B-*** | 46,6 | 21,4 | 120 | 90 | 43,3 | 43,3 | 127 |
| VG95234D-28-* | CA3106E28-**B-*** | 53,4 | 21,4 | 120 | 90 | 48,0 | 43,3 | 154 |
| VG95234D-32-* | CA3106E32-**B-*** | 60,1 | 26,7 | 120 | 90 | 55,0 | 51,7 | 199 |
| VG95234D-36-*[3] | CA3106E36-**B-*** | 66,3 | 31,7 | 130 | 100 | 58,0 | 58,0 | 260 |

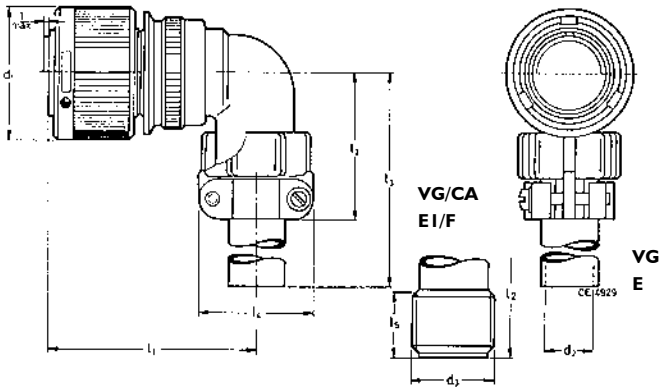
[1] Weight without insulator, grommets and contacts. [2] For max. cable entry. [3] For contact insert 36-5P a support washer is included.

Dimensions shown in mm
Specifications and dimensions subject to change

## Plug 90° with cable clamp or endbell for flex tube

**VG95234 – Style E1**
**CA3108F-B, additional modifications on page 12.**
Description: Plug 90° with endbell for flex tube.

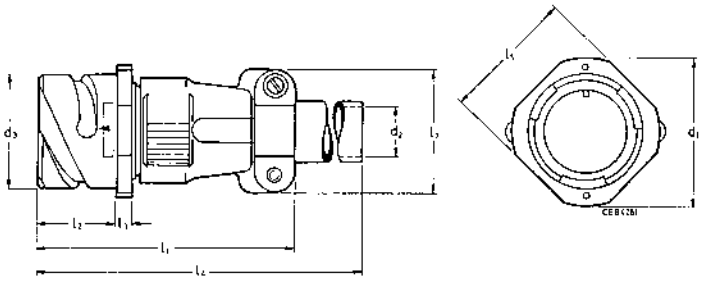
**VG95234 – Style E**
**CA3108E-B, additional modifications on page 12.**
Description: Plug 90° with cable clamp and telescoping bushing.




| VG95234 Part no. | Cannon Part no. | $d_3$-Thread Style E1 CA3108F | $d_1$ max. | $d_2$[2] max. | $l_1$ max. | $l_2$ max. E | $l_3$ max. E1 | $l_3$ max. E | $l_4$ max. | $l_5$ | Weight[1] g E | Weight[1] g E1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VG95234EX-10SL-* | CA3108X10SL-**B-*** | 5/8-24NEF-2A | 22,8 | 6,5 | 45 | 42 | 30 | 100 | 22,7 | 9,4 | 37 | 27 |
| – | CA3108X12S-**B-*** | 5/8-24NEF-2A | 26,0 | 6,5 | 45 | 42 | 30 | 100 | 22,7 | 9,4 | 45 | 35 |
| VG95234EX-14S-* | CA3108X14S-**B-*** | 3/4-20UNEF-2A | 29,2 | 9,0 | 47 | 42 | 30 | 100 | 27,5 | 9,4 | 58 | 43 |
| VG95234EX16S-* | CA3108X16S-**B-*** | 7/8-20UNEF-2A | 32,0 | 11,0 | 48 | 45 | 30 | 100 | 30,0 | 9,4 | 68 | 48 |
| VG95234EX-16-* | CA3108X16-**B-*** | 7/8-20UNEF-2A | 32,0 | 11,0 | 57 | 45 | 30 | 100 | 30,0 | 9,4 | 78 | 58 |
| VG95234EX-18-* | CA3108X18-**B-*** | 1-20UNEF-2A | 36,5 | 14,2 | 58 | 53 | 35 | 100 | 33,0 | 9,4 | 90 | 58 |
| VG95234EX-20-* | CA3108X20-**B-*** | 1 3/16-18UNEF-2A | 39,9 | 15,8 | 61 | 53 | 35 | 100 | 37,5 | 9,4 | 109 | 74 |
| VG95234EX-22-* | CA3108X22-**B-*** | 1 3/16-18UNEF-2A | 43,1 | 15,8 | 61 | 53 | 35 | 100 | 37,5 | 9,4 | 113 | 78 |
| VG95234EX-24-* | CA3108X24-**B-*** | 1 7/16-18UNEF-2A | 46,6 | 21,4 | 66 | 58 | 40 | 100 | 43,3 | 9,4 | 159 | 104 |
| VG95234EX-28-* | CA3108X28-**B-*** | 1 7/16-18UNEF-2A | 53,4 | 21,4 | 66 | 58 | 40 | 100 | 43,3 | 9,4 | 181 | 126 |
| VG95234EX-32-* | CA3108X32-**B-*** | 1 3/4 -18UNS-2A | 60,1 | 26,7 | 72 | 66 | 45 | 110 | 51,7 | 11,0 | 245 | 160 |
| VG95234EX-36-* | CA3108 36-**B-*** | 2 -18UNS-2A | 66,3 | 31,7 | 75 | 69 | 50 | 110 | 58,0 | 12,6 | 300 | 190 |

## Cable Connection Receptacle with cable clamp

**VG95234 – Style F**
**CA3101E-B, additional modifications on page 12.**
Description: Cable connection receptacle with cable clamp and telescoping bushing.



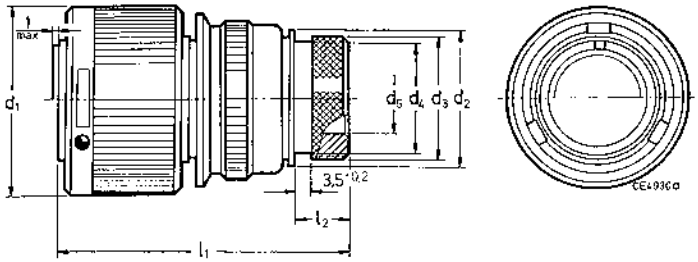
| VG95234 Part no. | Cannon Part no. | $d_1$ max. | $d_2$[2] | $d_3$ -0,15 | $l_1$ max. | $l_2$ ±0,1 | $l_3$ ±0,2 | $l_4$ max. | $l_5$ ±0,2 | $l_7$ max. | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VG95234F-10SL-* | CA3101E10SL-**B-*** | 25,2 | 6,5 | 18,2 | 57 | 18,2 | 2,8 | 120 | 20,6 | 22,7 | 35 |
| – | CA3101E12S-**B-*** | 27,8 | 6,5 | 21,4 | 57 | 18,2 | 3,2 | 120 | 23,6 | 22,7 | 43 |
| VG95234F-14S-* | CA3101E14S-**B-*** | 29,8 | 9,0 | 24,6 | 59 | 18,2 | 3,2 | 120 | 25,4 | 27,5 | 50 |
| VG95234F-16S-* | CA3101E16S-**B-*** | 32,3 | 11,0 | 27,4 | 60 | 18,2 | 3,2 | 120 | 28,6 | 30,0 | 60 |
| VG95234F-16-* | CA3101E16-**B-*** | 32,3 | 11,0 | 27,4 | 68 | 23,05 | 3,2 | 125 | 28,6 | 30,0 | 65 |
| VG95234F-18-* | CA3101E18-**B-*** | 34,8 | 14,2 | 30,8 | 72 | 23,05 | 4,0 | 125 | 31,7 | 33,0 | 80 |
| VG95234F-20-* | CA3101E20-**B-*** | 37,8 | 15,8 | 34,2 | 72 | 23,05 | 4,0 | 125 | 34,9 | 37,5 | 95 |
| VG95234F-22-* | CA3101E22-**B-*** | 41,1 | 15,8 | 37,4 | 72 | 23,05 | 4,0 | 125 | 38,1 | 37,5 | 105 |
| VG95234F-24-* | CA3101E24-**B-*** | 44,6 | 21,4 | 40,9 | 78 | 23,05 | 4,0 | 125 | 41,3 | 43,3 | 140 |
| VG95234F-28-* | CA3101E28-**B-*** | 50,9 | 21,4 | 46,7 | 79 | 24,05 | 4,0 | 125 | 47,6 | 43,3 | 160 |
| VG95234F-32-* | CA3101E32-**B-*** | 57,1 | 26,7 | 53,4 | 78 | 24,05 | 4,0 | 125 | 54,0 | 51,7 | 205 |
| VG95234F-36*-*[3] | CA3101E36*)-**B-*** | 63,6 | 31,7 | 59,6 | 78 | 24,05 | 4,0 | 135 | 60,6 | 58,0 | 270 |

[1] Weight without insulator, grommets and contacts. [2] For max. cable entry. [3] For contact insert 36-5P a support washer is included.

Dimensions shown in mm
Specifications and dimensions subject to change

## Straight Plug for heat shrink boot

**VG95234 – Style G**
**CA3106E–B, and modification -02, -03 or -06 additional modifications on page 12.**
Description: Straight plug with with adapter for heat shrink boots

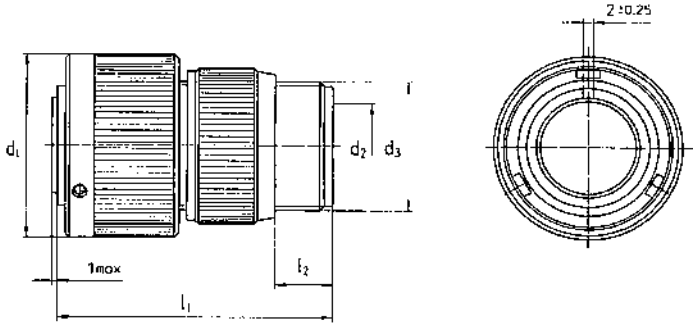


| VG95234 Part no. | Cannon Part no. | $d_1$ max. | $d_2$ ±0,2 | $d_3$ ±0,2 | $d_4$ max. | $d_4$ min. | $l_1$ max. | $l_2$ ±0,5 | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|
| VG95234G-10SL-* | CA3106E10SL-**B-*** | 22,8 | 17,0 | 15,5 | 13,3 | 7,7 | 50 | 11,7 | 24 |
| – | CA3106E12S-**B-*** | 26,0 | 17,8 | 15,5 | 13,3 | 7,9 | 50 | 11,7 | 35 |
| VG95234G-14S-* | CA3106E14S-**B-*** | 29,2 | 20,1 | 19,1 | 17,0 | 10,6 | 50 | 11,7 | 41 |
| VG95234G-16S-* | CA3106E16S-**B-*** | 32,0 | 23,5 | 23,9 | 21,9 | 13,5 | 50 | 11,7 | 51 |
| VG95234G-16-* | CA3106E16-**B-*** | 32,0 | 23,5 | 23,9 | 21,9 | 13,5 | 60 | 11,7 | 58 |
| VG95234G-18-* | CA3106E18-**B-*** | 36,5 | 26,5 | 23,9 | 21,9 | 14,6 | 60 | 11,7 | 65 |
| VG95234G-20-* | CA3106E20-**B-*** | 39,9 | 30,2 | 29,6 | 26,2 | 18,7 | 65 | 12,7 | 75 |
| VG95234G-22-* | CA3106E22-**B-*** | 43,1 | 33,6 | 29,6 | 26,2 | 20,8 | 65 | 12,7 | 80 |
| VG95234G-24-* | CA3106E24-**B-*** | 46,6 | 38,1 | 37,8 | 34,5 | 24,6 | 65 | 12,7 | 95 |
| VG95234G-28-* | CA3106E28-**B-*** | 53,4 | 41,4 | 37,8 | 34,5 | 27,0 | 65 | 12,7 | 120 |
| VG95234G-32-* | CA3106E32-**B-*** | 60,1 | 48,6 | 47,8 | 43,6 | 33,3 | 70 | 15,2 | 165 |
| VG95234G-36-* | CA3106E36-**B-*** | 66,3 | 54,8 | 47,8 | 43,6 | 38,5 | 80 | 15,2 | 180 |

[1] Weight without insulator, grommets and contacts.

## Straight Plug for flex tube

**VG95234 – Style H**
**CA3106E-F-B, additional modifications on page 12.**
Description: Straight plug for flex tube.



| VG95234 Part no. | Cannon Part no. | $d_3$-Thread | $d_1$ max. | $d_2$[2] | $l_1$ max. | $l_2$ min. | Weight[1] g max. |
|---|---|---|---|---|---|---|---|
| VG95234H-10SL-* | CA3106F10SL-**B-*** | 5/8-24NEF-2A | 22,8 | 8,2 | 50 | 9,5 | 21 |
| – | CA3106F12S-**B-*** | 5/8-24NEF-2A | 26,0 | 8,2 | 50 | 9,5 | 29 |
| VG95234H-14S-* | CA3106F14S-**B-*** | 3/4-20UNEF-2A | 29,2 | 11,1 | 50 | 9,5 | 33 |
| VG95234H-16S-* | CA3106F16S-**B-*** | 7/8-20UNEF-2A | 32,0 | 14,3 | 50 | 9,5 | 42 |
| VG95234H-16-* | CA3106F16-**B-*** | 7/8-20UNEF-2A | 32,0 | 14,3 | 60 | 9,5 | 51 |
| VG95234H-18-* | CA3106F18-**B-*** | 1-20UNEF-2A | 36,5 | 16,7 | 60 | 9,5 | 59 |
| VG95234H-20-* | CA3106F20-**B-*** | 1 3/16-18UNEF-2A | 39,9 | 19,8 | 60 | 9,5 | 59 |
| VG96234H-22-* | CA3106F22-**B-*** | 1 3/16-18UNEF-2A | 43,1 | 19,8 | 60 | 9,5 | 62 |
| VG95234H-24-* | CA3106F24-**B-*** | 1 7/16-18UNEF-2A | 46,6 | 25,4 | 65 | 9,5 | 84 |
| VG95234H-28-* | CA3106F28-**B-*** | 1 7/16-18UNEF-2A | 53,4 | 27,0 | 65 | 9,5 | 100 |
| VG95234H-32-* | CA3106F32-**B-*** | 1 3/4-18UNS-2A | 60,1 | 32,5 | 65 | 11,0 | 116 |
| VG95234H-36-* | CA3106F36-**B-*** | 2-18UNS-2A | 66,3 | 35,7 | 80 | 11,8 | 142 |

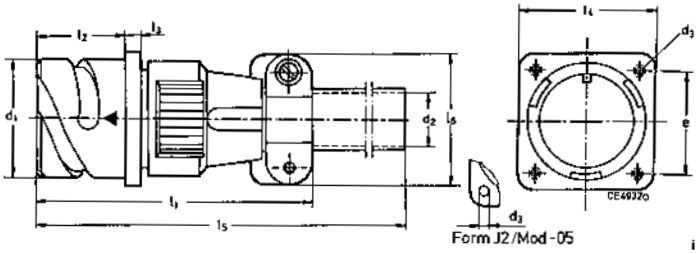
[1] Weight without insulator, grommets and contacts. [2] For max. cable entry.

Dimensions shown in mm
Specifications and dimensions subject to change

## Wall Mounting Receptacle with cable clamp

**VG95234 – Style J1.**
**CA3100E-B, additional modifications on page 12.**
Description: Wall mounting receptacle with cable clamp and telescope bushing, threaded holes in flange, for rear mounting.

**VG95234 – Style J2.**
**CA3100E-B, and modification -05, additional modifications on page 12.**
Description: Same as Style J1 but with through holes in flange, for rear mounting.

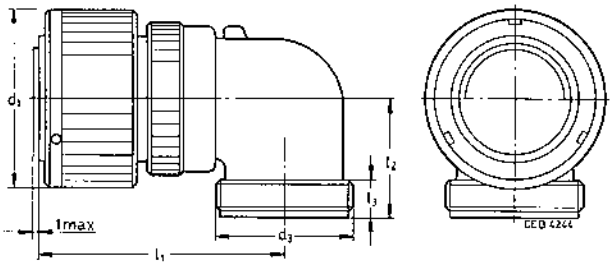



| VG95234 Part no. | Cannon Part no. | $d_1$ -0,15 | $d_2$ [1] | $d_3$ J1 | $d_3$ J2 H13* | $l_1$ max. | $l_2$ +0,4 | $l_2$ ±0,2 | $l_4$ ±0,3 | $l_5$ max. |
|---|---|---|---|---|---|---|---|---|---|---|
| VG95234*JX-10SL-* | CA3100E10SL-**-B-*** | 18,2 | 6,5 | M4 | 3,2 | 57 | 18,2 | 2,8 | 25,4 | 120 |
| – | CA3100E12S-**-B-*** | 21,4 | 6,5 | M4 | 3,2 | 57 | 18,2 | 3,2 | 28,0 | 120 |
| VG95234*JX-14S-* | CA3100E14S-**-B-*** | 24,6 | 9,0 | M4 | 3,2 | 59 | 18,2 | 3,2 | 30,0 | 120 |
| VG95234*JX-16S-* | CA3100E16S-**-B-*** | 27,4 | 11,0 | M4 | 3,2 | 60 | 18,2 | 3,2 | 32,5 | 120 |
| VG95234*JX-16-* | CA3100E16-**-B-*** | 27,4 | 11,0 | M4 | 3,2 | 68 | 23,05 | 3,2 | 32,5 | 125 |
| VG95234*JX-18-* | CA3100E18-**-B-*** | 30,8 | 14,2 | M4 | 3,2 | 72 | 23,05 | 4,0 | 35,0 | 125 |
| VG95234*JX-20-* | CA3100E20-**-B-*** | 34,2 | 15,8 | M4 | 3,2 | 72 | 23,05 | 4,0 | 38,0 | 125 |
| VG95234*JX-22-* | CA3100E22-**-B-*** | 37,4 | 15,8 | M4 | 3,2 | 72 | 23,05 | 4,0 | 41,0 | 125 |
| VG95234*JX-24-* | CA3100E24-**-B-*** | 40,9 | 21,4 | M4 | 3,7 | 78 | 23,05 | 4,0 | 44,5 | 125 |
| VG95234*JX-28-* | CA3100E28-**-B-*** | 46,7 | 21,4 | M5 | 3,7 | 79 | 24,05 | 4,0 | 50,8 | 125 |
| VG95234*JX-32-* | CA3100E32-**-B-*** | 53,4 | 26,7 | M5 | 4,3 | 78 | 24,05 | 4,0 | 57,0 | 125 |
| VG95234*JX-36-*[2] | CA3100E36-**-B-*** | 59,6 | 31,7 | M5 | 4,3 | 24,05 | 4,0 | 63,5 | 135 | 190 |

[1] For max. cable entry. [2] For contact insert 36-5P a support washer is included.
*Drilling tolerances according to DIN ISO 286

## Plug 90°, Shielded for flex tube

**VG95234 – Style K.**
**CA3108F, and modifications -13, -14 or -15, additional modifications on page 12.**
Description: Shielded plug with 90° endbell for flex tube, grounding spring on the barrel. No rear accessories to mount cable braid to the endbell.



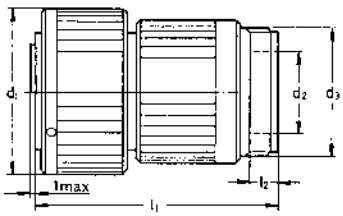

| VG95234 Part no. | Cannon Part no. | $d_3$-Thread | $d_1$ max. | $l_1$ max. | $l_2$ max. | $l_3$ min. | Weight[1] g max. |
|---|---|---|---|---|---|---|---|
| | CA3108F10SL-**-B-*** | 5/8-24UNEF-2A | 22,8 | 45 | 22 | 9,4 | 27 |
| – | CA3108F12S-**-B-*** | 5/8-24UNEF-2A | 26,0 | 45 | 22 | 9,4 | 35 |
| VG95234K-14S-* | CA3108F14S-**-B-*** | 3/4-20UNEF-2A | 29,2 | 47 | 24 | 9,4 | 43 |
| VG95234K-16S-* | CA3108F16S-**-B-*** | 7/8-20UNEF-2A | 32,0 | 48 | 25 | 9,4 | 48 |
| VG95234K-16-* | CA3108F16-**-B-*** | 7/8-20UNEF-2A | 32,0 | 57 | 25 | 9,4 | 58 |
| VG95234K-18-* | CA3108F18-**-B-*** | 1-20UNEF-2A | 36,5 | 58 | 27 | 9,4 | 58 |
| VG95234K-20-* | CA3108F20-**-B-*** | 1 3/16-18UNEF-2A | 39,9 | 61 | 29 | 9,4 | 74 |
| VG95234K-22-* | CA3108F22-**-B-*** | 1 3/16-18UNEF-2A | 43,1 | 61 | 30 | 9,4 | 78 |
| VG95234K-24-* | CA3108F24-**-B-*** | 1 7/16-18UNEF-2A | 46,6 | 66 | 32 | 9,4 | 104 |
| VG95234K-28-* | CA3108F28-**-B-*** | 1 7/16-18UNEF-2A | 53,4 | 66 | 34 | 9,4 | 126 |
| CG95234K-32-* | CA3108F32-**-B-*** | 1 3/4-18UNS-2A | 60,1 | 72 | 39,5 | 11,0 | 160 |
| VG95234K-36-* | CA3108F36-**-B-*** | 2-18UNS-2A | 66,3 | 75 | 45 | 12,6 | 190 |

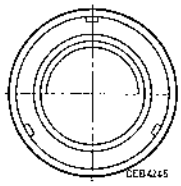
[1] Weight without insulator, grommets and contacts.

Dimensions shown in mm
Specifications and dimensions subject to change

## Straight Plug, shielded for flex tube

**VG95234 – Style L**
**CA3106F-B, and modifications -13, -14 or -15, additional modifications on page 12.**
Description: Straight plug with endbell for flex tube, grounding spring on the barrel.



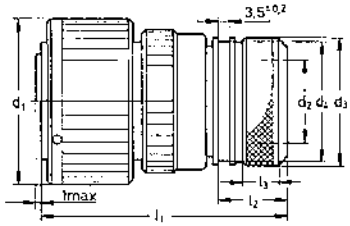



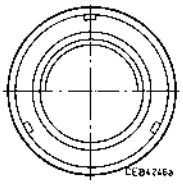
| VG95234 Part no. | Cannon Part no. | $d_3$-Thread | $d_1$ | $d_2$ [2] max. | $l_1$ | $l_2$ min. | Weight [1] g max. |
|---|---|---|---|---|---|---|---|
| – | CA3106F10SL-**-B-*** | 5/8-24UNEF-2A | 22,8 | 8,2 | 50 | 9,5 | 21 |
| – | CA3106F12S-**-B-*** | 5/8-24UNEF-2A | 26,0 | 8,2 | 50 | 9,5 | 29 |
| VG95234L-14S-* | CA3106F14S-**-B-*** | 3/4-20UNEF-2A | 29,2 | 11,1 | 50 | 9,5 | 33 |
| VG95234L-16S-* | CA3106F16S-**-B-*** | 7/8-20UNEF-2A | 32,0 | 14,3 | 50 | 9,5 | 42 |
| VG95234L-16-* | CA3106F-16-**-B-*** | 7/8-20UNEF-2A | 32,0 | 14,3 | 60 | 9,5 | 51 |
| VG95234L-18-* | CA3106F-18-**-B-*** | 1-20UNEF-2A | 36,5 | 16,7 | 60 | 9,5 | 59 |
| VG95234L-20-* | CA3106F-20-**-B-*** | 1 3/16-18UNEF-2A | 39,9 | 19,8 | 60 | 9,5 | 58 |
| VG95234L-22-* | CA3106F-22-**-B-*** | 1 3/16-18UNEF-2A | 43,1 | 19,8 | 60 | 9,5 | 62 |
| VG95234L-24-* | CA3106F-24-**-B-*** | 1 7/16-18UNEF-2A | 46,6 | 25,4 | 65 | 9,5 | 84 |
| VG95234L-28-* | CA3106F-28-**-B-*** | 1 7/16-18UNEF-2A | 53,4 | 27,0 | 65 | 9,5 | 100 |
| VG95234L-32-* | CA3106F-32-**-B-*** | 1 3/4-18UNS-2A | 60,1 | 32,5 | 65 | 11,0 | 116 |
| VG95234L-36-* | CA3106F-36-**-B-*** | 2-18UNS-2A | 66,3 | 35,7 | 80 | 11,8 | 142 |

[1] Weight without insulator, grommets and contacts. [2] For max. cable entry.

## Straight Plug, shielded

**VG95234 – Style M**
**CA3106E-B, and modifications -13, -14 or -15, additional modifications on page 12.**
Description: Straight, shielded plug with endbell for shielding braid, and heat shrink boots, grounding spring on the barrel.



| VG95234 Part no. | Cannon Part no. | $d_1$ max. | $d_2$ [2] min. | $d_3$ ±0,5 | $d_4$ max. | $l_1$ max. | $l_2$ +1 | $l_3$ ±0,5 | Weight [1] g max. |
|---|---|---|---|---|---|---|---|---|---|
| VG95234M-10SL-* | CA3106E10SL-**-B-*** | 22,8 | 7,7 | 18,5 | 16,3 | 55,0 | 17,0 | 7,0 | 40 |
| – | CA3106E12S-**-B-*** | 26,0 | 9,3 | 20,0 | 17,0 | 55,0 | 17,0 | 7,0 | 42 |
| VG95234M-14S-* | CA3106E14S-**-B-*** | 29,2 | 10,6 | 22,0 | 20,0 | 55,0 | 17,0 | 7,0 | 45 |
| VG95234M-16S-* | CA3106E16S-**-B-*** | 32,0 | 13,5 | 25,0 | 23,0 | 60,0 | 18,0 | 8,0 | 55 |
| VG95234M-16-* | CA3106E16-**-B-*** | 32,0 | 13,5 | 25,0 | 23,0 | 70,0 | 18,0 | 8,0 | 65 |
| VG95234M-18-* | CA3106E18-**-B-*** | 36,5 | 14,6 | 28,0 | 24,5 | 70,0 | 18,0 | 8,0 | 75 |
| VG95234M-20-* | CA3106E20-**-B-*** | 39,9 | 18,5 | 32,0 | 28,5 | 70,0 | 18,0 | 10,0 | 85 |
| VG95234M-22-* | CA3106E22-**-B-*** | 43,1 | 20,8 | 34,0 | 30,5 | 70,0 | 18,0 | 10,0 | 100 |
| VG95234M-24-* | CA3106E24-**-B-*** | 46,6 | 24,6 | 38,0 | 34,5 | 70,0 | 18,0 | 10,0 | 115 |
| VG95234M-28-* | CA3106E28-**-B-*** | 53,4 | 27,0 | 41,0 | 37,5 | 70,0 | 18,0 | 10,0 | 130 |
| VG95234M-32-* | CA3106E32-**-B-*** | 60,1 | 33,3 | 48,0 | 44,0 | 70,0 | 18,0 | 10,0 | 170 |
| VG95234M-36-* | CA3106E36-**-B-*** | 66,3 | 38,5 | 55,0 | 51,0 | 80,0 | 18,0 | 10,0 | 190 |

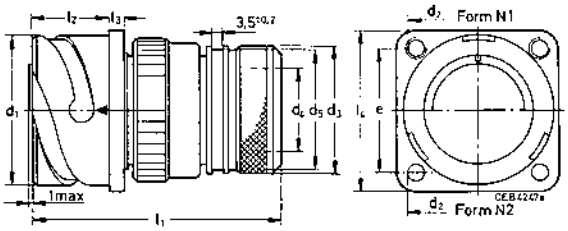
[1] Weight without insulator, grommets and contacts. [2] For max. cable entry.

Dimensions shown in mm
Specifications and dimensions subject to change

## Wall Mounting Receptacle, shielded

**VG95234 – Style N1.**
**CA3100E-B, and modifications -13, -14 or -15, see page 12.**
Description: Shielded receptacle with endbell for shielding braid, and heat shrink boots. With threaded holes in flange, for rear mounting.

**VG95234 – Style N2.**
**CA3100E-B, and modifications -05-13, -05-14 or -05-15, see page 12.**
Description: Same as Style N1 but with through holes in flange, for rear mounting.




**/Mod.-05**

| VG95234 Part no. | Cannon Part no. | $d_1$ -0,15 | $d_2$ Thread H13* N1 | N2 | $d_3$ ±0,5 | $d_4$[2] min. | $d_5$ max. | e ±0,1 | $l_1$ max. | $l_2$ +0,4 | $l_3$ ±0,2 | $l_4$ +0,3 | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VG95234*NX-10SL-* | CA3100E10SL-**-B-*** | 18,2 | M4 | 3,2 | 18,5 | 7,7 | 16,3 | 18,2 | 55 | 18,2 | 2,8 | 25,4 | 45 |
| VG95234*NX-14S-* | CA3100E14S-**-B-*** | 24,6 | M4 | 3,2 | 22,0 | 10,6 | 20,0 | 23,0 | 58 | 18,2 | 3,2 | 30,0 | 55 |
| VG95234*NX-16S-* | CA3100E16S-**-B-*** | 27,4 | M4 | 3,2 | 25,0 | 13,5 | 23,0 | 24,6 | 70 | 18,2 | 3,2 | 32,5 | 65 |
| VG95234*NX-16-* | CA3100E16-**-B-*** | 27,4 | M4 | 3,2 | 25,0 | 13,5 | 23,0 | 24,6 | 70 | 23,05 | 3,2 | 32,5 | 75 |
| VG95234*NX-18-* | CA3100E18-**-B-*** | 30,8 | M4 | 3,2 | 28,0 | 14,6 | 24,5 | 27,0 | 70 | 23,05 | 4,0 | 35,0 | 85 |
| VG95234*NX-20-* | CA3100E20-**-B-*** | 34,2 | M4 | 3,2 | 32,0 | 18,5 | 28,5 | 29,4 | 70 | 23,05 | 4,0 | 38,4 | 95 |
| VG95234*NX-22-* | CA3100E22-**-B-*** | 37,4 | M4 | 3,2 | 34,0 | 20,8 | 30,5 | 31,8 | 70 | 23,05 | 4,0 | 41,0 | 105 |
| VG95234*NX-24-* | CA3100E24-**-B-*** | 40,9 | M4 | 3,7 | 38,0 | 24,6 | 34,5 | 34,9 | 70 | 23,05 | 4,0 | 44,5 | 120 |
| VG95234*NX-28-* | CA3100E28-**-B-*** | 46,7 | M5 | 3,7 | 41,0 | 27,0 | 37,5 | 39,7 | 70 | 24,05 | 4,0 | 50,8 | 150 |
| VG95234*NX-32-* | CA3100E32-**-B-*** | 53,4 | M5 | 4,3 | 48,0 | 33,3 | 44,0 | 44,5 | 75 | 24,05 | 4,0 | 57,0 | 190 |
| VG95234*NX-36-* | CA3100E36-**-B-*** | 59,6 | M5 | 4,3 | 55,0 | 38,5 | 51,0 | 49,2 | 85 | 24,05 | 4,0 | 63,5 | 220 |

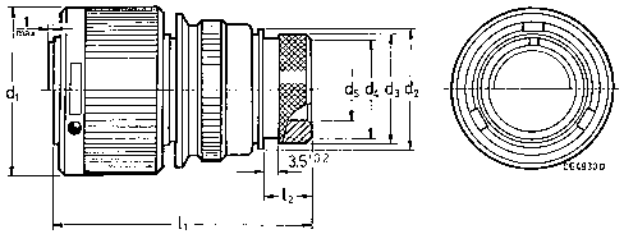
[1] Weight without insulator, grommets and contacts. [2] For max. cable entry.
*Drilling tolerances according to DIN ISO 286.

[1] Weight without insulator, grommets and contacts.

Dimensions shown in mm
Specifications and dimensions subject to change

## Straight Plug, shielded with adapter for heat shrink boots

**VG95234 – Style T.**
**CA3106E-B-32-DXX, and modifications 02-41, 03-41 or 06-41, see page 12.**
Description: Straight plug, shielded ground spring on the barrel with endbell for heat shrink boot.



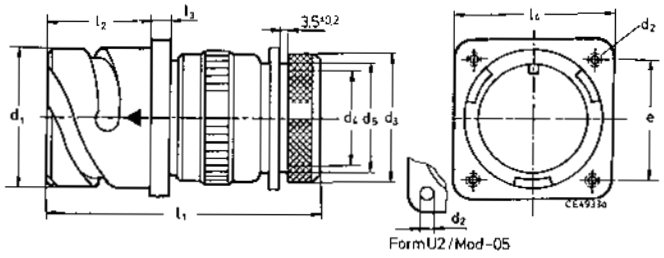

| VG95234 Part no. | Cannon Part no. | $d_1$ max. | $d_3$ ±0,2 | $d_3$ ±0,2 | $d_4$ max. | $d_5$ min. | $l_1$ max. | $l_2$ ±0,5 | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|
| VG95234T-10SL-* | CA3106E10SL-**B-*** | 22,8 | 17,0 | 15,5 | 13,3 | 7,7 | 50 | 11,7 | 24 |
| – | CA3106E12S-**B-*** | 26,0 | 17,8 | 15,5 | 13,3 | 7,9 | 50 | 11,7 | 35 |
| VG95234T-14S-* | CA3106E14S-**B-*** | 29,2 | 20,1 | 19,1 | 17,0 | 10,6 | 50 | 11,7 | 41 |
| VG95234T-16S-* | CA3106E16S-**B-*** | 32,0 | 23,5 | 23,9 | 21,9 | 13,5 | 50 | 11,7 | 51 |
| VG95234T-16-* | CA3106E16-**B-*** | 32,0 | 23,5 | 23,9 | 21,9 | 13,5 | 60 | 11,7 | 58 |
| VG95234T-18-* | CA3106E18-**B-*** | 36,5 | 26,5 | 23,9 | 21,9 | 14,6 | 60 | 11,7 | 65 |
| VG95234T-20-* | CA3106E20-**B-*** | 39,9 | 30,2 | 29,6 | 26,2 | 18,7 | 65 | 12,7 | 75 |
| VG95234T-22-* | CA3106E22-**B-*** | 43,1 | 33,6 | 29,6 | 26,2 | 20,8 | 65 | 12,7 | 80 |
| VG95234T-24-* | CA3106E24-**B-*** | 46,6 | 38,1 | 37,8 | 34,5 | 24,6 | 65 | 12,7 | 95 |
| VG95234T-28-* | CA3106E28-**B-*** | 53,4 | 41,4 | 37,8 | 34,5 | 27,0 | 65 | 12,7 | 120 |
| VG95234T-32-* | CA3106E32-**B-*** | 60,1 | 48,6 | 47,8 | 43,6 | 33,3 | 70 | 15,2 | 165 |
| VG95234T-36-* | CA3106E36-**B-*** | 66,3 | 54,8 | 47,8 | 43,6 | 38,5 | 80 | 15,2 | 180 |

Dimensions shown in mm
Specifications and dimensions subject to change

## Wall Mounting Receptacle for heat shrink boots

**VG95234 – Style U1.**
**CA3100E-B, and modifications -02, -03, or -06, see page 12**
Description: Wall mounting receptacle with adapter for heat shrink boots, with threaded holes in flange, for rear mounting.

**VG95234 – Style U2.**
**CA3100E-B, and modifications -02-05, -03-05, -06-05, see page 12.**
Description: Same as Style U1 but with through holes in flange, for rear mounting.

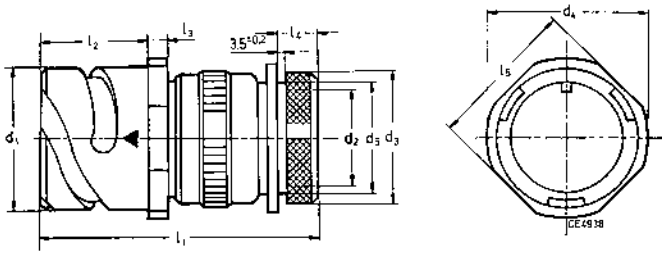



| VG95234 Part no. | Cannon Part no. | $d_1$ -0,15 | $d_2$ Thread | Ø H13* | $d_3$ ±0,2 | $d_4$ | $d_5$ max. | e ±0,1 | $l_1$ max. | $l_2$ +0,4 | $l_3$ ±0,2 | $l_4$ +0,3 | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VG95234UX-10SL-* | CA3100E10SL-**-B-*** | 18,2 | M4 | 3,2 | 15,5 | 7,7 | 13,3 | 18,2 | 57 | 18,2 | 2,8 | 25,4 | 35 |
| – | CA3100E12S-**-B-*** | 21,4 | M4 | 3,2 | 15,5 | 7,9 | 13,3 | 20,6 | 57 | 18,2 | 3,2 | 28,0 | 45 |
| VG95234UX-14S-* | CA3100E14S-**-B-*** | 24,6 | M4 | 3,2 | 19,1 | 10,6 | 17,0 | 23,0 | 57 | 18,2 | 3,2 | 30,0 | 50 |
| VG95234UX-16S-* | CA3100E16S-**-B-*** | 27,4 | M4 | 3,2 | 23,9 | 13,5 | 21,9 | 24,6 | 57 | 18,2 | 3,2 | 32,5 | 60 |
| VG95234UX-16-* | CA3100E16-**-B-*** | 27,4 | M4 | 3,2 | 23,9 | 13,5 | 21,9 | 24,6 | 63 | 23,05 | 3,2 | 32,5 | 65 |
| VG95234UX-18-* | CA3100E18-**-B-*** | 30,8 | M4 | 3,2 | 23,9 | 14,6 | 21,9 | 27,0 | 65 | 23,05 | 4,0 | 35,0 | 80 |
| VG95234UX-20-* | CA3100E20-**-B-*** | 34,2 | M4 | 3,2 | 29,6 | 18,7 | 26,2 | 29,4 | 68 | 23,05 | 4,0 | 38,0 | 95 |
| VG95234UX-22-* | CA3100E22-**-B-*** | 37,4 | M4 | 3,2 | 29,6 | 20,8 | 26,2 | 31,8 | 68 | 23,05 | 4,0 | 41,0 | 105 |
| VG95234UX-24-* | CA3100E24-**-B-*** | 40,9 | M4 | 3,7 | 37,8 | 24,6 | 34,5 | 34,9 | 70 | 23,05 | 4,0 | 44,5 | 140 |
| VG95234UX-28-* | CA3100E28-**-B-*** | 46,7 | M5 | 3,7 | 37,8 | 27,0 | 34,5 | 39,7 | 71 | 24,05 | 4,0 | 50,8 | 160 |
| VG95234UX-32-* | CA3100E32-**-B-*** | 53,4 | M5 | 4,3 | 47,8 | 33,3 | 43,6 | 44,5 | 74 | 24,05 | 4,0 | 57,0 | 205 |
| VG95234UX-36-* | CA3100E36-**-B-*** | 59,6 | M5 | 4,3 | 47,8 | 38,5 | 43,6 | 49,2 | 74 | 24,05 | 4,0 | 63,5 | 270 |

[1] Weight without insulator, grommets and contacts.
*Drilling tolerances according to DIN ISO 286

## Cable Connection Receptacle for heat shrink boots

**VG95234 – Style V.**
**CA3101E-B, and modifications -02, -03 or -06, see page 12.**
Description: Cable connection receptacle with adapter for heat shrinkable boots.



| VG95234 Part no. | Cannon Part no. | $d_1$ -0,15 | $d_2$[2] min. | $d_3$ ±0,2 | $d_4$ max. | $d_5$ max. | $l_1$ max. | $l_2$ +0,4 | $l_3$ ±0,2 | $l_4$ ±0,5 | $l_5$ | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VG95234V-10SL-* | CA3101E10SL-**-B-*** | 18,2 | 7,7 | 15,5 | 25,2 | 13,3 | 57 | 18,2 | 2,8 | 11,7 | 20,6 | 35 |
| | CA3101E12S-**-B-*** | 21,4 | 7,9 | 15,5 | 27,8 | 13,3 | 57 | 18,2 | 3,2 | 11,7 | 23,6 | 45 |
| VG95234V-14S-* | CA3101E14S-**-B-*** | 24,6 | 10,6 | 19,1 | 29,8 | 17,0 | 57 | 18,2 | 3,2 | 11,7 | 25,4 | 50 |
| VG95234V-16S-* | CA3101E16S-**-B-*** | 27,4 | 13,5 | 23,9 | 32,3 | 21,9 | 57 | 18,2 | 3,2 | 11,7 | 28,6 | 60 |
| VG95234V-16-* | CA3101E16-**-B-*** | 27,4 | 13,5 | 23,9 | 32,3 | 21,9 | 63 | 23,05 | 3,2 | 11,5 | 28,6 | 65 |
| VG95234V-18-* | CA3101E18-**-B-*** | 30,8 | 14,6 | 23,9 | 34,8 | 21,9 | 65 | 23,05 | 4,0 | 11,5 | 31,7 | 80 |
| VG95234V-20-* | CA3101E20-**-B-*** | 34,2 | 18,7 | 29,6 | 37,8 | 26,2 | 68 | 23,05 | 4,0 | 12,7 | 34,9 | 95 |
| VG95234V-22-* | CA3101E22-**-B-*** | 37,4 | 20,8 | 29,6 | 41,1 | 26,2 | 68 | 23,05 | 4,0 | 12,7 | 38,1 | 105 |
| VG95234V-24-* | CA3101E24-**-B-*** | 40,9 | 24,6 | 37,8 | 44,6 | 34,5 | 70 | 23,05 | 4,0 | 12,7 | 41,3 | 140 |
| VG95234V-28-* | CA3101E28-**-B-*** | 46,7 | 27,0 | 37,8 | 50,9 | 34,5 | 71 | 24,05 | 4,0 | 12,7 | 47,6 | 160 |
| VG95234V-32-* | CA3101E32-**-B-*** | 53,4 | 33,3 | 47,8 | 57,1 | 43,6 | 74 | 24,05 | 4,0 | 15,2 | 54,0 | 205 |
| VG95234V-36-* | CA3101E36-**-B-*** | 59,6 | 38,5 | 47,8 | 63,6 | 43,6 | 74 | 24,05 | 4,0 | 15,2 | 60,6 | 270 |

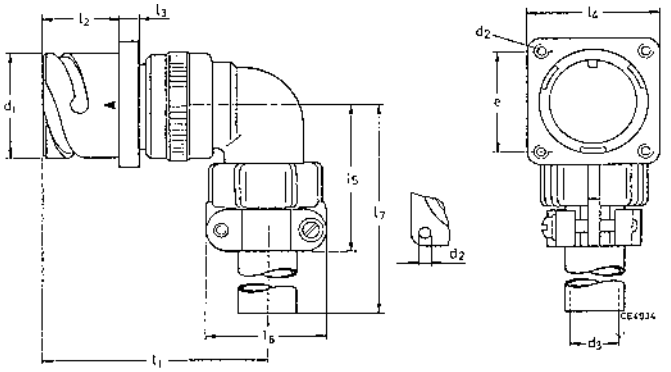
[1] Weight without insulator, grommets and contacts. [2] For max. cable entry.

Dimensions shown in mm
Specifications and dimensions subject to change

## Wall Mounting Receptacle, 90˚, with cable clamp

**CA3100E-B-08, additional modifications on page 12.**
Description: Wall mounting receptacle, with 90° endbell, cable clamp and telescoping bushing, flange with threaded holes.

**CA3100E-B-09, additional modifications on page 12.**
Description: Wall mounting receptacle, with 90° endbell, cable clamp and telescoping bushing, flange with through holes.



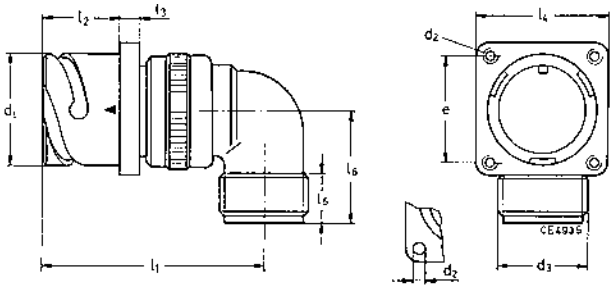
| Cannon Part no. | $d_1$ -0,15 | $d_2$ Thread | Ø H13* | $d_3$[2] max. | e ±0,4 | $l_1$ max. | $l_2$ +0,4 | $l_3$ ±0,2 | $l_4$ max. | $l_5$ max. | $l_6$ max. | $l_7$ max. | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CA3100E10SL-**-B-*** | 18,2 | M4 | 3,2 | 6,5 | 18,2 | 50 | 18,2 | 2,8 | 25,4 | 42 | 22,7 | 100 | 50 |
| CA3100E12S-**-B-*** | 21,4 | M4 | 3,2 | 6,5 | 20,6 | 50 | 18,2 | 3,2 | 28,0 | 42 | 22,7 | 100 | 60 |
| CA3100E14S-**-B-*** | 24,6 | M4 | 3,2 | 9,0 | 23,0 | 52 | 18,2 | 3,2 | 30,0 | 42 | 27,5 | 100 | 70 |
| CA3100E16S-**-B-*** | 27,4 | M4 | 3,2 | 11,0 | 24,6 | 53 | 18,2 | 3,2 | 32,5 | 45 | 30,0 | 100 | 80 |
| CA3100E16-**-B-*** | 27,4 | M4 | 3,2 | 11,0 | 24,6 | 60 | 23,05 | 3,2 | 32,5 | 45 | 30,0 | 100 | 90 |
| CA3100E18-**-B-*** | 30,8 | M4 | 3,2 | 14,2 | 27,0 | 62 | 23,05 | 4,0 | 35,0 | 53 | 33,0 | 100 | 100 |
| CA3100E20-**-B-*** | 34,2 | M4 | 3,2 | 15,8 | 29,4 | 66 | 23,05 | 4,0 | 38,0 | 53 | 37,5 | 100 | 120 |
| CA3100E22-**-B-*** | 37,4 | M4 | 3,2 | 15,8 | 31,8 | 66 | 23,05 | 4,0 | 41,0 | 53 | 37,5 | 100 | 130 |
| CA3100E24-**-B-*** | 40,9 | M4 | 3,7 | 21,4 | 34,9 | 69 | 23,05 | 4,0 | 44,5 | 58 | 43,3 | 100 | 170 |
| CA3100E28-**-B-*** | 46,7 | M5 | 3,7 | 21,4 | 39,7 | 70 | 24,05 | 4,0 | 50,8 | 58 | 43,3 | 100 | 200 |
| CA3100E32-**-B-*** | 53,4 | M5 | 4,3 | 26,7 | 44,5 | 74 | 24,05 | 4,0 | 57,0 | 66 | 51,7 | 110 | 265 |
| CA3100E36-**-B-*** | 59,6 | M5 | 4,3 | 31,7 | 49,2 | 78 | 24,05 | 4,0 | 63,5 | 69 | 58,0 | 110 | 325 |

[1] Weight without insulator, grommets and contacts. [2] For max. cable entry.
*Drilling tolerances according to DIN ISO 286

## Wall Mounting Receptacle, 90˚, for flex tube

**CA3100F-B-08, additional modifications on page 12.**
Description: Wall mounting receptacle, with 90° endbell for flex tube. Flange with threaded holes

**CA3100F-B-09, additional modifications on page 12.**
Description: Wall mounting receptacle, with 90° endbell for flex tube. Flange with through holes.



Mod -09

| Cannon Part no. | $d_1$ -0,15 | $d_2$ Thread | Ø H13* | $d_3$ Thread | e ±0,1 | $l_1$ max. | $l_2$ +0,4 | $l_3$ ±0,2 | $l_4$ ±0,3 | $l_5$ min. | $l_6$ max. | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CA3100F10SL-**-B-*** | 18,2 | M4 | 3,2 | 5/8-24UNEF-2A | 18,2 | 50 | 18,2 | 2,8 | 25,4 | 9,4 | 30 | 47 |
| CA3100F12S-**-B-*** | 21,4 | M4 | 3,2 | 5/8-24UNEF-2A | 20,6 | 50 | 18,2 | 3,2 | 28,0 | 9,4 | 30 | 57 |
| CA3100F14S-**-B-*** | 24,6 | M4 | 3,2 | 3/4-20UNEF-2A | 23,0 | 52 | 18,2 | 3,2 | 30,0 | 9,4 | 30 | 57 |
| CA3100F16S-**-B-*** | 27,4 | M4 | 3,2 | 7/8-20UNEF-2A | 24,6 | 53 | 18,2 | 3,2 | 32,5 | 9,4 | 30 | 75 |
| CA3100F16-**-B-*** | 27,4 | M4 | 3,2 | 7/8-20UNEF-2A | 24,6 | 60 | 23,05 | 3,2 | 32,5 | 9,4 | 30 | 85 |
| CA3100F18-**-B-*** | 30,8 | M4 | 3,2 | 1-20UNEF-2A | 27,0 | 62 | 23,05 | 4,0 | 35,0 | 9,4 | 35 | 95 |
| CA3100F20-**-B-*** | 34,2 | M4 | 3,2 | 1 3/16-18UNEF-2A | 29,4 | 66 | 23,05 | 4,0 | 38,0 | 9,4 | 35 | 115 |
| CA3100F22-**-B-*** | 37,4 | M4 | 3,2 | 1 3/16-18UNEF-2A | 31,8 | 66 | 23,05 | 4,0 | 41,0 | 9,4 | 35 | 125 |
| CA3100F24-**-B-*** | 40,9 | M4 | 3,7 | 1 7/16-18UNEF-2A | 34,9 | 69 | 23,05 | 4,0 | 44,5 | 9,4 | 40 | 160 |
| CA3100F28-**-B-*** | 46,7 | M5 | 3,7 | 1 7/16-18UNEF-2A | 39,7 | 70 | 24,05 | 4,0 | 50,8 | 9,4 | 40 | 190 |
| CA3100F32-**-B-*** | 53,4 | M5 | 4,3 | 1 3/4-18UNS-2A | 44,5 | 74 | 24,05 | 4,0 | 57,0 | 11,0 | 45 | 250 |
| CA3100F36-**-B-*** | 59,6 | M5 | 4,3 | 2-18UNS-2A | 49,2 | 78 | 24,05 | 4,0 | 63,5 | 12,6 | 50 | 310 |

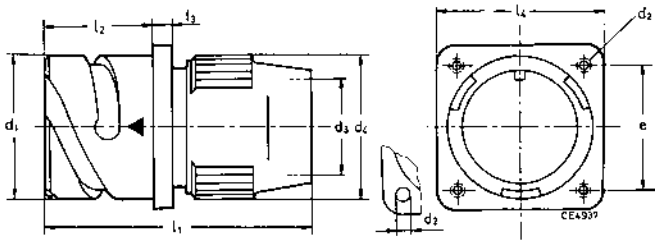
[1] Weight without insulator, grommets and contacts.
*Drilling tolerances according to DIN ISO 286.

Dimensions shown in mm
Specifications and dimensions subject to change

## Wall Mounting Receptacle with short endbell

**CA3100R-B, additional modifications on page 12.**
Description: Wall mounting receptacle with short endbell without cable clamp. Flange with threaded holes, for rear mounting.

**CA3100R-B, additional modifications on page 12.**
Description: Wall mounting receptacle with short endbell without cable clamp. Flange with through holes, for rear mounting.



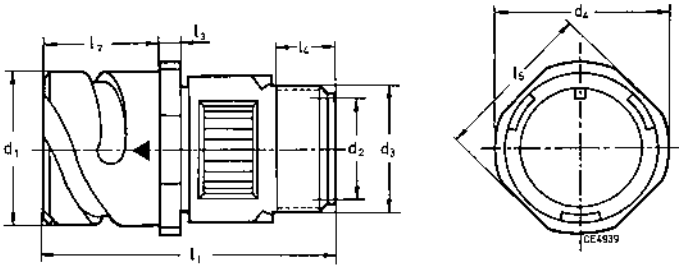

**Mod -05**

| Cannon Part no. | $d_1$ -0,15 | $d_2$ Thread | H13 | $d_3$[2] max. | $d_4$ max. | e ±0,1 | $l_1$ max. | $l_2$ +,0,4 | $l_3$ ±0,2 | $l_4$ ±0,3 | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CA3100R10SL-**-B-*** | 18,2 | M4 | 3,2 | 9,6 | 22,0 | 18,2 | 50 | 18,2 | 2,8 | 25,4 | 40 |
| CA3100R12S-**-B-*** | 21,4 | M4 | 3,2 | 10,3 | 23,0 | 20,6 | 52 | 18,2 | 3,2 | 28,0 | 50 |
| CA3100R14S-**-B-*** | 24,6 | M4 | 3,2 | 12,4 | 27,0 | 23,0 | 52 | 18,2 | 3,2 | 30,0 | 60 |
| CA3100R16S-**-B-*** | 27,4 | M4 | 3,2 | 15,4 | 28,0 | 24,6 | 58 | 18,2 | 3,2 | 32,5 | 70 |
| CA3100R16-**-B-*** | 27,4 | M4 | 3,2 | 15,4 | 28,0 | 24,6 | 58 | 23,05 | 3,2 | 32,5 | 75 |
| CA3100R18-**-B-*** | 30,8 | M4 | 3,2 | 18,4 | 31,0 | 27,0 | 65 | 23,05 | 4,0 | 35,0 | 90 |
| CA3100R20-**-B-*** | 34,2 | M4 | 3,2 | 22,0 | 35,0 | 29,4 | 65 | 23,05 | 4,0 | 38,0 | 110 |
| CA3100R22-**-B-*** | 37,4 | M4 | 3,2 | 24,7 | 38,0 | 31,8 | 65 | 23,05 | 4,0 | 41,0 | 125 |
| CA3100R24-**-B-*** | 40,9 | M4 | 3,7 | 27,6 | 42,0 | 34,9 | 67 | 23,05 | 4,0 | 44,5 | 160 |
| CA3100R28-**-B-*** | 46,7 | M5 | 3,7 | 31,6 | 49,0 | 39,7 | 67 | 24,05 | 4,0 | 50,8 | 190 |
| CA3100R32-**-B-*** | 53,4 | M5 | 4,3 | 38,5 | 55,0 | 44,5 | 67 | 24,05 | 4,0 | 57,0 | 230 |
| CA3100R36-**-B-*** | 59,6 | M5 | 4,3 | 44,5 | 62,0 | 49,2 | 67 | 24,05 | 4,0 | 63,5 | 300 |

[1] Weight without insulator, grommets and contacts. [2] For max. cable entry.
*Drilling tolerances according to DIN ISO 286.

## Cable Connection Receptacle for flex tube

**CA3101F-B, additional modifications on page 12.**
Description: Cable connection receptacle for flex tube.




| Cannon Part no. | $d_1$ -0,15 | $d_2$[2] min. | $d_3$ Thread | $d_4$ max. | $l_1$ max. | $l_2$ +0,4 | $l_3$ ±0,2 | $l_4$ min. | $l_5$ ±0,2 | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|---|
| CA3101F10SL-**-B-*** | 18,2 | 8,2 | 5/8-24NEF-2A | 25,2 | 52 | 18,2 | 2,8 | 9,5 | 20,6 | 35 |
| CA3101F12S-**-B-*** | 21,4 | 8,2 | 5/8-24NEF-2A | 27,8 | 52 | 18,2 | 3,2 | 9,5 | 23,6 | 45 |
| CA3101F14S-**-B-*** | 24,6 | 11,1 | 3/4-20UNEF-2A | 29,8 | 52 | 18,2 | 3,2 | 9,5 | 25,4 | 50 |
| CA3101F16S-**-B-*** | 27,4 | 14,3 | 7/8-20UNEF-2A | 32,3 | 59 | 18,2 | 3,2 | 9,5 | 28,6 | 60 |
| CA3101F16-**-B-*** | 27,4 | 14,3 | 7/8-20UNEF-2A | 32,3 | 59 | 23,05 | 3,2 | 9,5 | 28,6 | 65 |
| CA3101F18-**-B-*** | 30,8 | 16,7 | 1-20UNEF-2A | 34,8 | 63 | 23,05 | 4,0 | 9,5 | 31,7 | 80 |
| CA3101F20-**-B-*** | 34,2 | 19,8 | 1 3/16-18UNEF-2A | 37,8 | 63 | 23,05 | 4,0 | 9,5 | 34,9 | 95 |
| CA3101F22-**-B-*** | 37,4 | 19,8 | 1 3/16-18UNEF-2A | 41,1 | 66 | 23,05 | 4,0 | 9,5 | 38,1 | 105 |
| CA3101F24-**-B-*** | 40,9 | 25,4 | 1 7/16-18UNEF-2A | 44,6 | 69 | 23,05 | 4,0 | 9,5 | 41,3 | 140 |
| CA3101F28-**-B-*** | 46,7 | 27,0 | 1 7/16-18UNEF-2A | 50,9 | 70 | 24,05 | 4,0 | 9,5 | 47,6 | 160 |
| CA3101F32-**-B-*** | 53,4 | 32,5 | 1 3/4-18UNS-2A | 57,1 | 71 | 24,05 | 4,0 | 11,0 | 54,0 | 205 |
| CA3101F36-**-B-*** | 59,6 | 35,7 | 2-18UNS-2A | 63,6 | 73 | 24,05 | 4,0 | 11,8 | 60,6 | 270 |

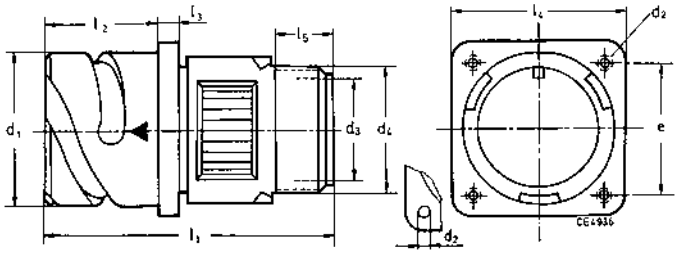
[1] Weight without insulator, grommets and contacts. [2] For max. cable entry.

Dimensions shown in mm
Specifications and dimensions subject to change

## Wall Mounting Receptacle for flex tube

**CA3100F-B, additional modifications on page 12.**
Description: Wall mounting receptacle with straight endbell for flex tube. Flange with threaded holes, for rear mounting.

**CA3100F-B-05, additional modifications on page 12.**
Description: Wall mounting receptacle with straight endbell for flex tube. Flange with through holes, for rear mounting.




**Mod -05**

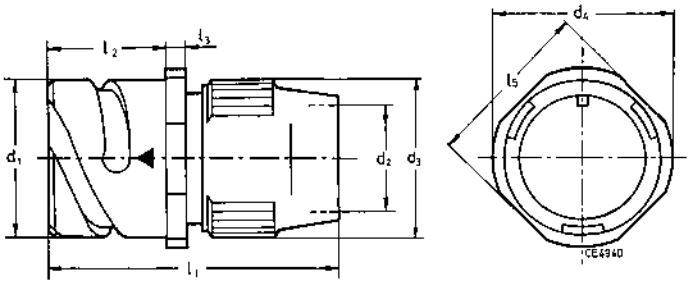
| Cannon Part no. | $d_1$ -0,15 | $d_2$ Thread | Ø H13* | $d_3$[2)] | $d_4$ Thread | e ±0,1 | $l_1$ max. | $l_2$ +0,4 | $l_3$ ±0,2 | $l_4$ ±0,3 | $l_5$ min. | Weight[1)] g max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CA3100F10SL-**-B-*** | 18,2 | M4 | 3,2 | 8,2 | 5/8-24NEF-2A | 18,2 | 52 | 18,2 | 2,8 | 25,4 | 9,5 | 40 |
| CA3100F12S-**-B-*** | 21,4 | M4 | 3,2 | 8,2 | 5/8-24NEF-2A | 20,6 | 52 | 18,2 | 3,2 | 28,0 | 9,5 | 50 |
| CA3100F14S-**-B-*** | 24,5 | M4 | 3,2 | 11,1 | 3/4-20UNEF-2A | 23,0 | 52 | 18,2 | 3,2 | 30,0 | 9,5 | 60 |
| CA3100F16S-**-B-*** | 27,4 | M4 | 3,2 | 14,3 | 7/8-20UNEF-2A | 24,6 | 59 | 18,2 | 3,2 | 32,5 | 9,5 | 70 |
| CA3100F16-**-B-*** | 27,4 | M4 | 3,2 | 14,3 | 7/8-20UNEF-2A | 24,6 | 59 | 23,05 | 3,2 | 32,5 | 9,5 | 75 |
| CA3100F18-**-B-*** | 30,8 | M4 | 3,2 | 16,7 | 1-20UNEF-2A | 27,0 | 63 | 23,05 | 4,0 | 35,0 | 9,5 | 90 |
| CA3100F20-**-B-*** | 34,2 | M4 | 3,2 | 19,8 | 1 3/16-18UNEF-2A | 29,4 | 63 | 23,05 | 4,0 | 38,0 | 9,5 | 110 |
| CA3100F22-**-B-*** | 37,4 | M4 | 3,2 | 19,8 | 1 3/16-18UNEF-2A | 31,8 | 66 | 23,05 | 4,0 | 42,0 | 9,5 | 125 |
| CA3100F24-**-B-*** | 40,9 | M4 | 3,7 | 25,4 | 1 7/16-18UNEF-2A | 34,9 | 69 | 23,05 | 4,0 | 44,5 | 9,5 | 160 |
| CA3100F28-**-B-*** | 46,7 | M5 | 3,7 | 27,0 | 1 7/16-18UNEF-2A | 39,7 | 70 | 24,05 | 4,0 | 50,8 | 9,5 | 190 |
| CA3100F32-**-B-*** | 53,4 | M5 | 4,3 | 32,5 | 1 3/4-18UNS-2A | 44,5 | 71 | 24,05 | 4,0 | 57,0 | 11,0 | 230 |
| CA3100F36-**-B-*** | 59,6 | M5 | 4,3 | 35,7 | 2-18UNS-2A | 49,2 | 73 | 24,05 | 4,0 | 63,5 | 11,8 | 300 |

[1)] Weight without insulator, grommets and contacts. [2)] For max. cable entry.
*Drilling tolerances according to DIN ISO 286.

Dimensions shown in mm
Specifications and dimensions subject to change

## Cable Connection Receptacle with short endbell

**CA3101R-B, additional modifications on page 12.**
Description: Cable connection receptacle with short endbell, without cable clamp.

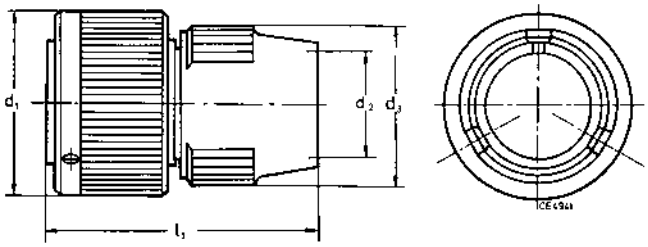



| Cannon Part no. | $d_1$ -0,15 | $d_2$ min. | $d_3$ max. | $d_4$ max. | $l_1$ max. | $l_2$ +,0,4 | $l_3$ ±0,2 | $l_5$ ±0,2 | Weight[1] g max. |
|---|---|---|---|---|---|---|---|---|---|
| CA3101R10SL-**-B-*** | 18,2 | 9,6 | 22,0 | 25,2 | 50 | 18,2 | 2,8 | 20,6 | 32 |
| CA3101R12S-**-B-*** | 21,4 | 10,3 | 23,0 | 27,8 | 52 | 18,2 | 3,2 | 23,6 | 40 |
| CA3101R14S-**-B-*** | 24,6 | 12,4 | 27,0 | 29,8 | 52 | 18,2 | 3,2 | 25,4 | 47 |
| CA3101R16S-**-B-*** | 27,4 | 15,4 | 28,0 | 32,3 | 58 | 18,2 | 3,2 | 28,6 | 55 |
| CA3101R16-**-B-*** | 27,4 | 15,4 | 28,0 | 32,3 | 58 | 23,05 | 3,2 | 28,6 | 60 |
| CA3101R18-**-B-*** | 30,8 | 18,4 | 31,0 | 34,8 | 65 | 23,05 | 4,0 | 31,7 | 75 |
| CA3101R20-**-B-*** | 34,2 | 22,0 | 35,0 | 37,8 | 65 | 23,05 | 4,0 | 34,9 | 90 |
| CA3101R22-**-B-*** | 37,4 | 24,7 | 38,0 | 41,1 | 65 | 23,05 | 4,0 | 38,1 | 100 |
| CA3101R24-**-B-*** | 40,9 | 27,6 | 42,0 | 44,6 | 67 | 23,05 | 4,0 | 41,3 | 135 |
| CA3101R28-**-B-*** | 46,7 | 31,6 | 49,0 | 50,9 | 67 | 24,05 | 4,0 | 47,6 | 155 |
| CA3101R32-**-B-*** | 53,4 | 38,5 | 55,0 | 57,1 | 67 | 24,05 | 4,0 | 54,0 | 200 |
| CA3101R36-**-B-*** | 59,6 | 44,5 | 62,0 | 63,6 | 67 | 24,05 | 4,0 | 60,6 | 260 |

[1] Weight without insulator, grommets and contacts.

## Straight Plug with short endbell

**CA3106R-B, additional modifications on page 12.**
Description: Straight plug with short endbell, without cable clamp.

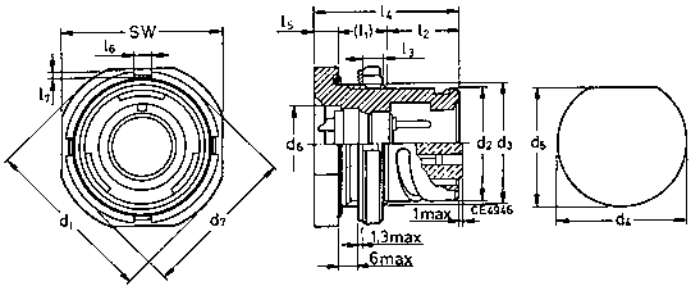



| Cannon Part no. | $d_1$ max. | $d_2$[1] | $d_3$ max. | $l_1$ max. | Weight[1] g max. |
|---|---|---|---|---|---|
| CA3106R10SL-**-B-*** | 22,8 | 9,6 | 22,0 | 50 | 27 |
| CA3106R12S-**-B-*** | 26,0 | 10,3 | 23,0 | 50 | 35 |
| CA3106R14S-**-B-*** | 29,2 | 12,4 | 27,0 | 50 | 40 |
| CA3106R16S-**-B-*** | 32,0 | 15,4 | 28,0 | 50 | 50 |
| CA3106R16-**-B-*** | 32,0 | 15,4 | 28,0 | 60 | 57 |
| CA3106R18-**-B-*** | 36,5 | 18,4 | 31,0 | 62 | 65 |
| CA3106R20-**-B-*** | 39,9 | 22,0 | 35,0 | 62 | 80 |
| CA3106R22-**-B-*** | 43,1 | 24,7 | 38,0 | 62 | 87 |
| CA3106R24-**-B-*** | 46,6 | 27,6 | 42,0 | 62 | 120 |
| CA3100R28-**-B-*** | 53,4 | 31,6 | 49,0 | 62 | 150 |
| CA3106R32-**-B-*** | 60,1 | 38,5 | 55,0 | 62 | 190 |
| CA3106R36-**-B-*** | 66,3 | 44,5 | 62,0 | 62 | 250 |

[1] Weight without insulator, grommets and contacts.

## Jam Nut Receptacle

**CA07A-B, additional modifications on page 12.**
Description: Jam nut receptacle with locking hex nut.

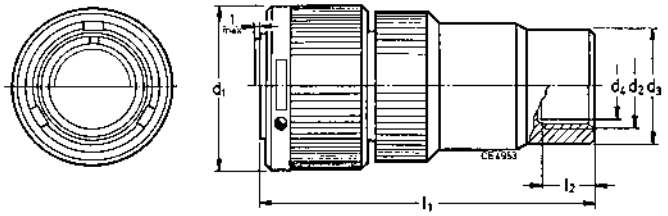



| Cannon Part no. | $d_1$ | $d_2$ | $d_3$ Thread | $(l_1)$ | $l_2$ | $l_3$ | $l_4$ | $d_4$ | $d_5$ | $d_6$ | $d_7$ | sw | $d_8$ | $l_5$ | $l_6$ | $l_7$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CA07A10SL-**B-*** | 35,0 | 18,2 | 7/8-20UNEF-2A | 13,5 | 12,5 | 4,0 | 29,2 | 22,7 | 20,9 | 13,5 | 31,5 | 31,8 | 20,6 | 3,2 | 5,0 | 2,5 |
| CA07A14S-**B-*** | 41,3 | 24,6 | 1 1/8-18UNEF-2A | 13,5 | 12,5 | 4,0 | 29,2 | 28,8 | 27,2 | 17,9 | 37,9 | 38,1 | 26,9 | 3,2 | 6,0 | 2,5 |
| CA07A16S-**B-*** | 44,4 | 27,4 | 1 1/4-18UNEF-2A | 13,5 | 12,5 | 4,0 | 29,2 | 32,0 | 30,4 | 21,1 | 41,0 | 41,2 | 30,1 | 3,2 | 6,0 | 2,5 |
| CA07A16-**B-*** | 44,4 | 27,4 | 1 1/4-18UNEF-2A | 13,5 | 21,0 | 4,0 | 37,7 | 32,0 | 30,4 | 21,1 | 41,0 | 41,2 | 30,1 | 3,2 | 6,0 | 2,5 |
| CA07A18-**B-*** | 48,2 | 30,8 | 1 3/8-18UNEF-2A | 15,0 | 21,0 | 5,0 | 40,0 | 35,1 | 33,6 | 24,2 | 44,8 | 45,0 | 33,3 | 4,0 | 7,0 | 3,0 |
| CA07A20-**B-*** | 52,4 | 34,2 | 1 1/2-18UNEF-2A | 15,0 | 21,0 | 5,0 | 40,0 | 38,2 | 36,8 | 28,2 | 49,0 | 49,2 | 36,5 | 4,0 | 7,0 | 3,0 |
| CA07A22-**B-*** | 55,5 | 37,4 | 1 5/8-18UNEF-2A | 15,0 | 21,0 | 5,0 | 40,0 | 42,0 | 39,9 | 31,4 | 52,2 | 52,4 | 39,6 | 4,0 | 7,0 | 3,0 |
| CA07A24-**B-*** | 59,0 | 40,9 | 1 3/4-18UNEF-2A | 15,0 | 21,0 | 5,0 | 40,0 | 44,7 | 43,1 | 34,5 | 55,0 | 55,2 | 41,2 | 4,0 | 7,0 | 3,0 |
| CA07A28-**B-*** | 66,0 | 46,7 | 2-18UNEF-2A | 15,0 | 21,0 | 5,0 | 40,0 | 51,1 | 49,2 | 40,1 | 62,0 | 62,2 | 47,5 | 4,0 | 7,0 | 3,0 |
| CA07A32-**B-*** | 72,0 | 53,4 | 2 1/4-16UN-2A | 15,0 | 21,0 | 5,0 | 40,0 | 57,4 | 55,7 | 46,5 | 68,0 | 68,2 | 54,1 | 4,0 | 7,0 | 3,0 |
| CA07A36-**B-*** | 80,0 | 59,6 | 2 1/2-16UN2A | 15,0 | 21,0 | 5,0 | 40,0 | 63,8 | 62,0 | 51,2 | 75,0 | 75,2 | 60,5 | 4,0 | 8,0 | 3,0 |

## Straight Plug with PG or Metric Adapter

**CA06PG-B , additional modifications on page 12.**
Description: Straight plug with adapter for PG Gland nut
Gland nut is not included.

**CA06ME-B , additional modifications on page 12.**
Description: Straight plug with adapter for ME Gland nut
Gland nut is not included.



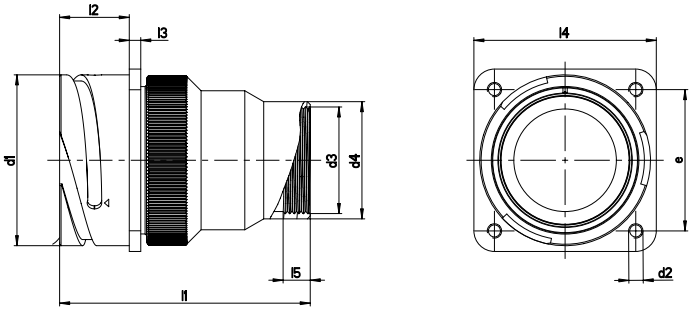

| Cannon Part no. | $d_1$ | $d_3$ | $l_1$ | $l_2$ | $d_2$ PG-Thread |
|---|---|---|---|---|---|
| CA06PG10SL-**-B-*** | 22,8 | 18,0 | 52 | 7,0 | PG 9 |
| CA06PG12S-**-B-*** | 26,0 | 18,8 | 52 | 7,0 | PG 9 |
| CA06PG14S-**-B-*** | 29,2 | 22,0 | 52 | 7,0 | PG11 |
| CA06PG16S-**-B-*** | 32,0 | 23,6 | 54 | 7,0 | PG13,5 |
| CA06PG16-**-B-*** | 32,0 | 24,0 | 64 | 7,0 | PG13,5 |
| CA06PG18-**-B-*** | 36,5 | 24,4 | 69 | 7,5 | PG13,5 |
| CA06PG20-**-B-*** | 39,9 | 26,8 | 70 | 7,5 | PG16 |
| CA06PG22-**-B-*** | 42,1 | 26,4 | 73 | 7,5 | PG16 |
| CA06PG24-**-B-*** | 46,6 | 26,8 | 74 | 7,5 | PG16 |
| CA06PG28-**-B-*** | 53,4 | 32,0 | 74 | 7,5 | PG21 |
| CA06PG32-**-B-*** | 60,1 | 40,8 | 76 | 8,5 | PG29 |
| CA06PG36-**-B-*** | 66,3 | 40,8 | 87 | 9,0 | PG29 |

| Cannon Part no. | $d_1$ | $d_3$ | $l_1$ | $l_2$ | $d_2$ Metric |
|---|---|---|---|---|---|
| CA06ME10SL-**-B-*** | 22,8 | 21.5 | 57 | 7 | M16X1,5 |
| CA06ME12S-**-B-*** | 25,8 | 22.5 | 57 | 7 | M16X1,5 |
| CA06ME14S-**-B-*** | 29,2 | 25 | 57 | 7 | M20X1,5 |
| CA06ME16S-**-B-*** | 32 | 26.5 | 57 | 7 | M20X1,5 |
| CA06ME16-**-B-*** | 32 | 26.5 | 77 | 7 | M20X1,5 |
| CA06ME18-**-B-*** | 36,5 | 31 | 77 | 7.5 | M25X1,5 |
| CA06ME20-**-B-*** | 39,9 | 34 | 77 | 7.5 | M25X1,5 |
| CA06ME22-**-B-*** | 43,1 | 40 | 82 | 7.5 | M32X1,5 |
| CA06ME24-**-B-*** | 46,6 | 40 | 83 | 7.5 | M32X1,5 |
| CA06ME28-**-B-*** | 53,4 | 41 | 83 | 7.5 | M32X1,5 |
| CA06ME32-**-B-*** | 60,1 | 48.5 | 90 | 8.5 | M40X1,5 |
| CA06ME36-**-B-*** | 66,3 | 48.5 | 90 | 9 | M40X1,5 |

Dimensions shown in mm
Specifications and dimensions subject to change

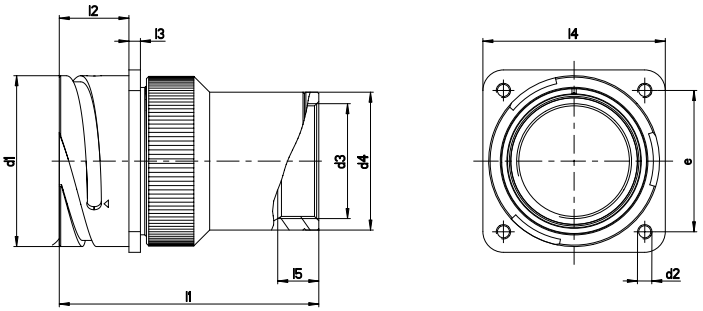
## Wall Mounting Receptacle with PG or Metric Adapter

**CA00PG-B, additional modifications on page 12.**
Description: Wall mounting receptacle with adapter for PG Gland nut
Gland nut is not included.




| Cannon Part no. | $d_1$ -0,15 | $d_2$ Thread | $d_2$ Ø H13 | $d_3$ PG-Thread | $d_4$ | e ±0,1 | $l_1$ max | $l_2$ +0,4 | $l_3$ ±0,2 | $l_4$ ±0,3 | $l_5$ min. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CA00PG10SL-**-B-*** | 18,2 | M4 | 3,2 | PG9 | 18,0 | 18,2 | 56 | 18,2 | 2,8 | 25,4 | 8 |
| CA00PG12S-**-B-*** | 21,4 | M4 | 3,2 | PG9 | 18,8 | 20,6 | 56 | 18,2 | 3,2 | 28,0 | 8 |
| CA00PG14S-**-B-*** | 24,6 | M4 | 3,2 | PG11 | 22,0 | 23,0 | 56 | 18,2 | 3,2 | 30,0 | 8 |
| CA00PG16S-**-B-*** | 27,4 | M4 | 3,2 | PG13,5 | 23,6 | 24,6 | 58 | 18,2 | 3,2 | 32,5 | 8 |
| CA00PG16-**-B-*** | 27,4 | M4 | 3,2 | PG13,5 | 24,0 | 24,6 | 66 | 21,5 | 3,2 | 32,5 | 8 |
| CA00PG18-**-B-*** | 30,8 | M4 | 3,2 | PG13,5 | 24,4 | 27,0 | 73 | 23,05 | 4,0 | 35,0 | 8 |
| CA00PG20-**-B-*** | 34,2 | M4 | 3,2 | PG16 | 26,8 | 29,4 | 74 | 23,05 | 4,0 | 38,0 | 8 |
| CA00PG22-**-B-*** | 37,4 | M4 | 3,2 | PG16 | 26,4 | 31,8 | 77 | 23,05 | 4,0 | 41,0 | 8 |
| CA00PG24-**-B-*** | 40,9 | M4 | 3,7 | PG16 | 26,8 | 34,9 | 77 | 23,05 | 4,0 | 44,5 | 8 |
| CA00PG28-**-B-*** | 46,7 | M5 | 3,7 | PG21 | 32,0 | 39,7 | 78 | 24,05 | 4,0 | 50,8 | 9 |
| CA00PG32-**-B-*** | 53,4 | M5 | 4,3 | PG29 | 40,8 | 44,5 | 78 | 24,05 | 4,0 | 57,0 | 9 |
| CA00PG36-**-B-*** | 59,6 | M5 | 4,3 | PG29 | 40,8 | 49,2 | 89 | 24,05 | 4,0 | 63,5 | 9 |

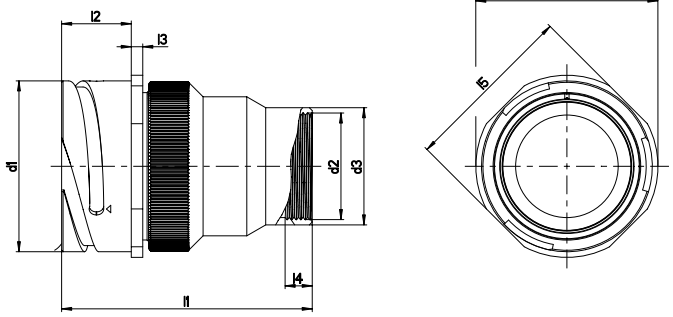
**CA00ME-B, additional modifications on page 12.**
Description: Wall mounting receptacle with adapter for ME Gland nut
Gland nut is not included.




| Cannon Part no. | $d_1$ -0,15 | $d_2$ Thread | $d_2$ Ø H13 | $d_3$ Metric | $d_4$ max | e ±0,1 | $l_1$ max | $l_2$ +0,4 | $l_3$ ±0,2 | $l_4$ ±0,3 | $l_5$ min. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CA00ME10SL-**-B-*** | 18,2 | M4 | 3,2 | M16X1,5 | 21,5 | 18,2 | 60 | 18,2 | 2,8 | 25,4 | 10 |
| CA00ME12S-**-B-*** | 21,4 | M4 | 3,2 | M16X1,5 | 22,5 | 20,6 | 60 | 18,2 | 3,2 | 28,0 | 10 |
| CA00ME14S-**-B-*** | 24,6 | M4 | 3,2 | M20X1,5 | 25,0 | 23,0 | 60 | 18,2 | 3,2 | 30,0 | 11 |
| CA00ME16S-**-B-*** | 27,4 | M4 | 3,2 | M20X1,5 | 26,5 | 24,6 | 60 | 18,2 | 3,2 | 32,5 | 11 |
| CA00ME16-**-B-*** | 27,4 | M4 | 3,2 | M20X1,5 | 26,5 | 24,6 | 79 | 21,5 | 3,2 | 32,5 | 11 |
| CA00ME18-**-B-*** | 30,8 | M4 | 3,2 | M25X1,5 | 31,0 | 27,0 | 81 | 23,05 | 4,0 | 35,0 | 11 |
| CA00ME20-**-B-*** | 34,2 | M4 | 3,2 | M25X1,5 | 34,0 | 29,4 | 81 | 23,05 | 4,0 | 38,0 | 11 |
| CA00ME22-**-B-*** | 37,4 | M4 | 3,2 | M32X1,5 | 40,5 | 31,8 | 86 | 23,05 | 4,0 | 41,0 | 12 |
| CA00ME24-**-B-*** | 40,9 | M4 | 3,7 | M32X1,5 | 40,5 | 34,9 | 86 | 23,05 | 4,0 | 44,5 | 12 |
| CA00ME28-**-B-*** | 46,7 | M5 | 3,7 | M32X1,5 | 41,0 | 39,7 | 87 | 24,05 | 4,0 | 50,8 | 12 |
| CA00ME32-**-B-*** | 53,4 | M5 | 4,3 | M40X1,5 | 48,5 | 44,5 | 92 | 24,05 | 4,0 | 57,0 | 12 |
| CA00ME36-**-B-*** | 59,6 | M5 | 4,3 | M40X1,5 | 48,5 | 49,2 | 92 | 24,05 | 4,0 | 63,5 | 12 |

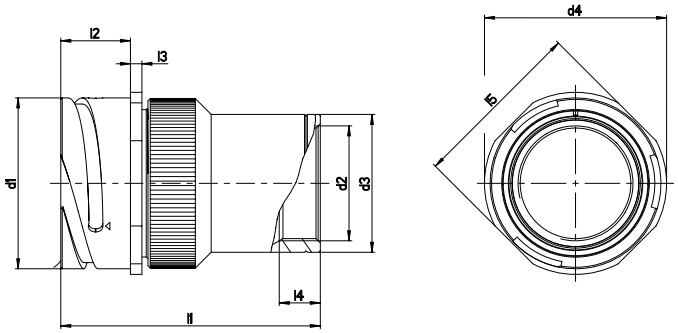
## Cable Connection Receptacle with PG or Metric Adapter

**CA01PG-B, additional modifications on page 12.**
Description: Cable connection receptacle with adapter for PG Gland nut
Gland nut is not included.




| Cannon Part no. | $d_1$ -0,15 | $d_2$ PG-Thread | $d_3$ | $d_4$ max | $l_1$ max | $l_2$ +0,4 | $l_3$ ±0,2 | $l_4$ min. | $l_5$ ±0,2 |
|---|---|---|---|---|---|---|---|---|---|
| CA01PG10SL-**-B-*** | 18,2 | PG9 | 18,0 | 25,2 | 56 | 18,2 | 2,8 | 8 | 20,6 |
| CA01PG12S-**-B-*** | 21,4 | PG9 | 18,8 | 27,8 | 56 | 18,2 | 3,2 | 8 | 23,8 |
| CA01PG14S-**-B-*** | 24,6 | PG11 | 22,0 | 29,8 | 56 | 18,2 | 3,2 | 8 | 25,4 |
| CA01PG16S-**-B-*** | 27,4 | PG13,5 | 23,6 | 32,3 | 58 | 18,2 | 3,2 | 8 | 28,6 |
| CA01PG16-**-B-*** | 27,4 | PG13,5 | 24,0 | 32,3 | 66 | 21,5 | 3,2 | 8 | 28,6 |
| CA01PG18-**-B-*** | 30,8 | PG13,5 | 24,4 | 34,8 | 73 | 23,05 | 4,0 | 8 | 31,7 |
| CA01PG20-**-B-*** | 34,2 | PG16 | 26,8 | 37,8 | 74 | 23,05 | 4,0 | 8 | 34,9 |
| CA01PG22-**-B-*** | 37,4 | PG16 | 26,4 | 41,1 | 77 | 23,05 | 4,0 | 8 | 38,1 |
| CA01PG24-**-B-*** | 40,9 | PG16 | 26,8 | 44,6 | 77 | 23,05 | 4,0 | 8 | 41,3 |
| CA01PG28-**-B-*** | 46,7 | PG21 | 32,0 | 50,9 | 78 | 24,05 | 4,0 | 9 | 47,6 |
| CA01PG32-**-B-*** | 53,4 | PG29 | 40,8 | 57,1 | 78 | 24,05 | 4,0 | 9 | 54,0 |
| CA01PG36-**-B-*** | 59,6 | PG29 | 40,8 | 63,6 | 89 | 24,05 | 4,0 | 9 | 60,6 |

**CA01ME-B, additional modifications on page 12.**
Description: Cable connection receptacle with adapter for ME Gland nut
Gland nut is not included.

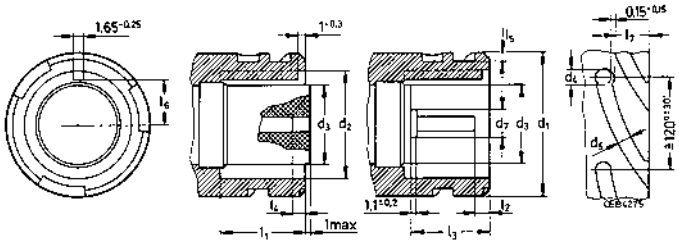



| Cannon Part no. | $d_1$ -0,15 | $d_2$ Metric | $d_3$ max | $d_4$ max | $l_1$ max | $l_2$ +0,4 | $l_3$ ±0,2 | $l_4$ min. | $l_5$ ±0,2 |
|---|---|---|---|---|---|---|---|---|---|
| CA01ME10SL-**-B-*** | 18,2 | M16X1,5 | 21,5 | 25,2 | 60 | 18,2 | 2,8 | 10 | 20,6 |
| CA01ME12S-**-B-*** | 21,4 | M16X1,5 | 22,5 | 27,8 | 60 | 18,2 | 3,2 | 10 | 23,8 |
| CA01ME14S-**-B-*** | 24,6 | M20X1,5 | 25,0 | 29,8 | 60 | 18,2 | 3,2 | 11 | 25,4 |
| CA01ME16S-**-B-*** | 27,4 | M20X1,5 | 26,5 | 32,3 | 60 | 18,2 | 3,2 | 11 | 28,6 |
| CA01ME16-**-B-*** | 27,4 | M20X1,5 | 26,5 | 32,3 | 79 | 21,5 | 3,2 | 11 | 28,6 |
| CA01ME18-**-B-*** | 30,8 | M25X1,5 | 31,0 | 34,8 | 81 | 23,05 | 4,0 | 11 | 31,7 |
| CA01ME20-**-B-*** | 34,2 | M25X1,5 | 34,0 | 37,8 | 81 | 23,05 | 4,0 | 11 | 34,9 |
| CA01ME22-**-B-*** | 37,4 | M32X1,5 | 40,0 | 41,1 | 86 | 23,05 | 4,0 | 12 | 38,1 |
| CA01ME24-**-B-*** | 40,9 | M32X1,5 | 40,0 | 44,6 | 86 | 23,05 | 4,0 | 12 | 41,3 |
| CA01ME28-**-B-*** | 46,7 | M32X1,5 | 41,0 | 50,9 | 87 | 24,05 | 4,0 | 12 | 47.6 |
| CA01ME32-**-B-*** | 53,4 | M40X1,5 | 48,5 | 57,1 | 92 | 24,05 | 4,0 | 12 | 54,0 |
| CA01ME36-**-B-*** | 59,6 | M40X1,5 | 48,5 | 63,6 | 92 | 24,05 | 4,0 | 12 | 60.6 |

Dimensions shown in mm
Specifications and dimensions subject to change

## Coupling Dimensions

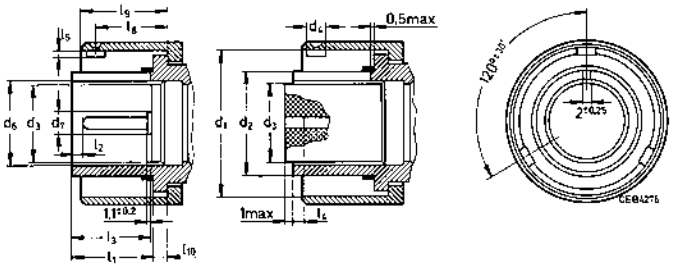
**For connector style A, B1, B2, C1, C2, F, J1, J2, N1 and N2 resp. CA3100, CA3101, CA3102 and TBF.**
A = Contact size 10. B = Contact size 15S, 15, 16S, 16. C = Contact size 25, 12. D = Contact size 60, 100, 160, 500, 8, 4, 0. E = Contact size 10F = Contact size 15S, 16S. G = all others.



| Shell Size | $d_1$ -0,15 | $d_2$ +0,3 | $d_3$ | $d_4$ +0,4 | $d_5$ +0,8 | $l_1$ min. | $l_1$ ±1 A-1 | $l_1$ B±1 | $l_2$ C±1 | $l_2$ D | $l_3$ ±0,5 | $l_3$ ±1 E | $l_4$ F | $l_4$ G | $l_4$ +0,2 | $l_5$ +0,4 | $l_6$ $l_7$ +0,1 -0,005 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | 18,2 | 11,4 | 9,7 $^{+0,25}_{-0,3}$ | 2,75 | 2,75 | 14,2 | – | 2,2 | – | – | 12,8 | – | 2 | – | 1,8 | 4,4 | 6,3 |
| 12S | 21,4 | 14,2 | 10, 8 $^{+0,25}_{-0,3}$ | 2,75 | 2,75 | 14,2 | – | 2,2 | – | – | 12,8 | – | 2 | – | 1,8 | 5,9 | 6,3 |
| 14S | 24,6 | 17,3 | 13,0 $^{+0,25}_{-0,3}$ | 2,75 | 2,75 | 14,2 | – | 2,2 | – | – | 12,8 | – | 2 | – | 1,8 | 6,9 | 6,3 |
| 16S | 27,4 | 20,6 | 16,1 $^{+0,25}_{-0,3}$ | 2,75 | 2,75 | 14,2 | – | 2,2 | – | – | 12,8 | – | 2 | – | 1,8 | 8,4 | 6,3 |
| 16 | 27,4 | 20,6 | 16,1 $^{+0,25}_{-0,3}$ | 4,65 | 4,65 | 19 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 1,8 | 8,4 | 9,6 |
| 18 | 30,8 | 23,8 | 18,8 $^{\pm0,4}$ | 4,65 | 4,65 | 19 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 2,0 | 9,7 | 9,6 |
| 20 | 34,2 | 26,9 | 22,6 $^{\pm0,4}$ | 4,65 | 4,65 | 19 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 2,0 | 11,7 | 9,6 |
| 22 | 37,4 | 30,0 | 25,1 $^{\pm0,4}$ | 4,65 | 4,65 | 19 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 2,0 | 12,9 | 9,6 |
| 24 | 40,9 | 33,2 | 28,2 $^{\pm0,4}$ | 4,65 | 4,65 | 19 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 2,0 | 14,5 | 9,6 |
| 28 | 46,7 | 38,8 | 33,6 $^{\pm0,4}$ | 4,65 | 4,65 | 19 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 2,0 | 17,3 | 9,6 |
| 32 | 53,4 | 45,2 | 40,0 $^{\pm0,4}$ | 4,65 | 4,65 | 19 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 2,0 | 20,4 | 9,6 |
| 36 | 59,6 | 50,6 | 45,5 $^{\pm0,4}$ | 4,65 | 4,65 | 19 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 2,0 | 23,0 | 9,6 |

## Coupling Dimensions

**For connector style D, E, E1, G and H resp. CA3106 and 3108.**
A = Contact size 10. B = Contact size 15S, 15, 16S, 16. C = Contact size 25, 12. D = Contact size 60, 100, 160, 500, 8, 4, 0. E = Contact size 10. F = Contact size 15S, 16S. G = all others.



| Shell Size | $d_1$ -0,15 | $d_2$ -0,3 | $d_3$ | $d_4$ -0,1 | $d_6$ | $l_1$ ±0,2 | $l_1$ ±1 A | $l_2$ B | $l_2$ C | $l_2$ D | $l_3$[1] ±0,5 | $l_3$[1] ±1 E | $l_4$ F | $l_4$ G | $l_5$ +0,05 -0,1 | $l_8$ ±1 | $l_9$ ±0,5 | $l_{10}$ ±0,1 -0,05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | 18,2 | 11,3 | 9,7 $^{+0,25}_{-0,3}$ | 2,6 | 10,0$^{+0,3}$ | 13,5 | – | 2,2 | – | – | 12,8 | – | 2 | – | 1,6 | 11,8 | 14 | 2,1 |
| 12S | 21,4 | 14,0 | 10,8 $^{+0,25}_{-0,3}$ | 2,6 | 11,4$^{+0,6}$ | 13,5 | – | 2,2 | – | – | 12,8 | – | 2 | – | 1,6 | 11,8 | 14 | 2,1 |
| 14S | 24,8 | 17,1 | 13,0 $^{+0,25}_{-0,3}$ | 2,6 | 13,3$^{+0,6}$ | 13,5 | – | 2,2 | – | – | 12,8 | – | 2 | – | 1,6 | 11,8 | 14 | 2,1 |
| 16S | 27,6 | 20,4 | 16,1 $^{+0,25}_{-0,3}$ | 2,6 | 16,4$^{+0,6}$ | 13,5 | – | 2,2 | – | – | 12,8 | – | 2 | – | 1,6 | 11,8 | 14 | 2,1 |
| 16 | 27,6 | 20,4 | 16,1 $^{+0,25}_{-0,3}$ | 4,5 | 16,4$^{+0,6}$ | 18,2 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 1,6 | 16,0 | 18,8 | 2,1 |
| 18 | 31,1 | 23,6 | 18,8 $^{\pm0,4}$ | 4,5 | 19,6$^{+0,6}$ | 18,2 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 1,8 | 16,0 | 18,8 | 2,1 |
| 20 | 34,5 | 26,7 | 22,6 $^{\pm0,4}$ | 4,5 | 23,6$^{+0,6}$ | 18,2 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 1,8 | 16,0 | 18,8 | 2,1 |
| 22 | 37,7 | 29,8 | 25,1 $^{\pm0,4}$ | 4,5 | 26,0$^{+0,6}$ | 18,2 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 1,8 | 16,0 | 18,8 | 2,1 |
| 24 | 41,2 | 33,0 | 28,2 $^{\pm0,4}$ | 4,5 | 29,1$^{+0,7}$ | 18,2 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 1,8 | 16,8 | 19,6 | 2,8 |
| 28 | 47,0 | 38,6 | 33,6 $^{\pm0,4}$ | 4,5 | 34,7$^{+0,7}$ | 18,2 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 1,8 | 16,8 | 19,6 | 2,8 |
| 32 | 53,7 | 44,9 | 40,0 $^{\pm0,4}$ | 4,5 | 41,0$^{+0,7}$ | 18,2 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 1,8 | 16,8 | 19,6 | 2,8 |
| 36 | 59,9 | 50,3 | 45,5 $^{\pm0,4}$ | 4,5 | 46,6$^{+0,7}$ | 19 | 9,8 | 6,6 | 3 | 2,3 | 17,6 | 1,4 | – | 2,6 | 1,8 | 16,8 | 19,6 | 2,8 |

[1] In terminated condition.

Dimensions shown in mm
Specifications and dimensions subject to change

# CAB IP69K

## General Information

### Scope

This specification describes a CA-B connector with a sealing effectiveness up to IP69K. This connector is interchangeable with the corresponding types as per MIL-C-5015 and VG95234, as they offer the same mounting dimensions and contact arrangements. These connectors are without spring washer, friction ring and grommet.

### Recommended Method of Mounting

Connector shell is fixed with 4 screws on the housing. In combination with universal endbell and an o-ring between flange receptacle and wall the connector will reach IP68 sealing (1 bar, 16h) and IP69K sealing acc. to ISO20653.

| Ratings & Characteristics | |
|---|---|
| Locking Device | Bayonet Coupling |
| Contact Type | Crimp or Solder Contacts |
| Electrical Characteristics | In accordance with VG95234 bayonet coupling |
| Environmental Characteristics | In accordance with VG95234 bayonet coupling<br>Deviance with plating A240: 500h salt spray test with mated pair<br>Deviance with plating A34: 48h salt spray test |
| Water tightness for mated connector | IP68 (1bar, 16h) and IP69K in combination with universal endbell and o-ring (flange receptacle to wall) |

| Normative references | |
|---|---|
| DIN EN 61984 | Electrical Connector, safety requirements and tests |
| IEC 60068 | Environmental tests |
| IEC 60352 | Crimp connection and requirements |
| IEC 60512 | Electrical Connector, measuring and test procedure |
| IEC 60529 | Specification for degrees of protection provided by enclosures |
| VG 95373 | Electromagnetic compatibility |

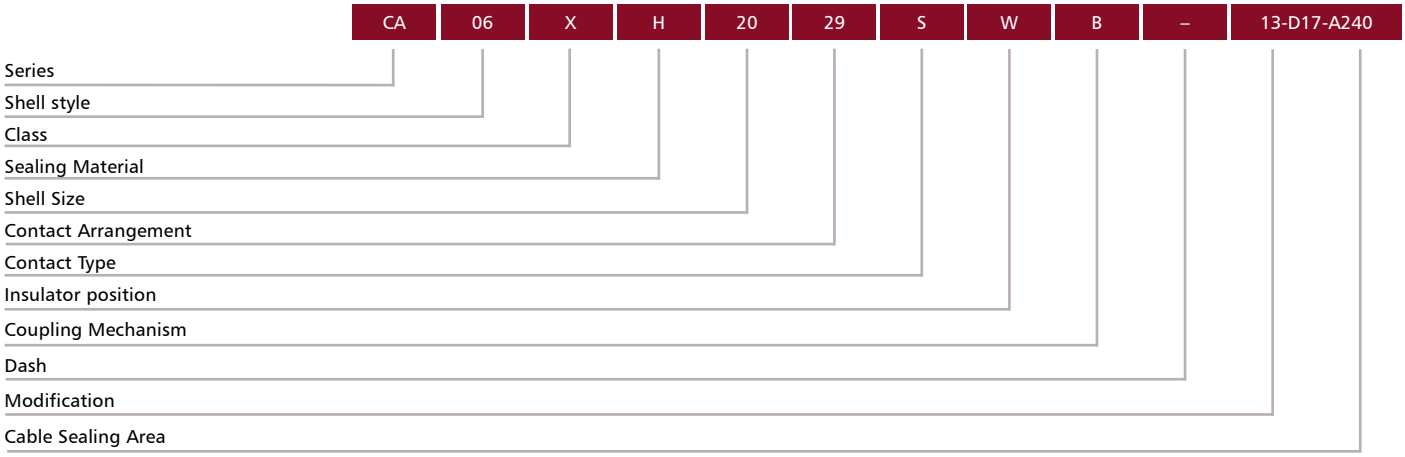
## Mechanical Characteristics

| Designation | Material | Finish |
|---|---|---|
| Shell | Aluminium-alloy | According to order reference |
| Coupling Nut | | |
| Endbell | | |
| Cone Ring | | |
| Clamping Nut | | |
| Clutch Spring | | |
| Circlip | Spring Steel | - |
| Contact | Copper-alloy | Silver Plated and Passivated |
| Clutch Ring | PPS | - |
| Shielding Sleeve | PA66 | |
| Clamping Ring | PBT | |
| Insulator | CR-rubber | - |
| Sealing Ring | | |
| Grommet | | |
| O-ring | | |

Dimensions shown in mm
Specifications and dimensions subject to change

## How to order

### Cannon Order reference




## Explanation

### Series
CA

### Shell style
01 = Cable connection receptacle
02 = Wall mounting receptacle, front panel mounting
06 = Straight plug, without spring washer, friction ring and grommet

### Class
X=Environmental (IP69K)

### Sealing Material
Without = CR-Sealing (cable seal: Silicone)
H= FKM sealing (cable seal: Silicone), consult factory

### Shell Sizes
Available shell sizes: 10SL, 14S, 18, 20, 22, 28

### Contact Arrangement
See pages 13-23

### Contact Type
P= Pin, S=Socket

### Coupling Mechanism
B=Bayonet

### Insulator Position
See pages 13-23, no identification for normal position

### Cable Sealing Area
**D07** = with Universal Endbell (IP69K), straight version: #10SL, #14S, #20 (wire size 4,5 – 7,2mm)
**D09** = with Universal Endbell (IP69K), straight version: #14S, #20 (wire size 6,5 - 9,3mm)
**D11** = with Universal Endbell (IP69K), straight version: #14S, #18, #20 (wire size 8,0 – 10,3mm)
**D13** = with Universal Endbell (IP69K), straight version: #18, #20, #22 (wire size 9,0 – 12,5mm
**D14** = with Universal Endbell (IP69K), straight version: #18, #20, #22, #28 (wire size 11,5 – 14,2mm)
**D17** = with Universal Endbell (IP69K), straight version: #20, #22, #28 (wire size 14,5 – 16,6mm)

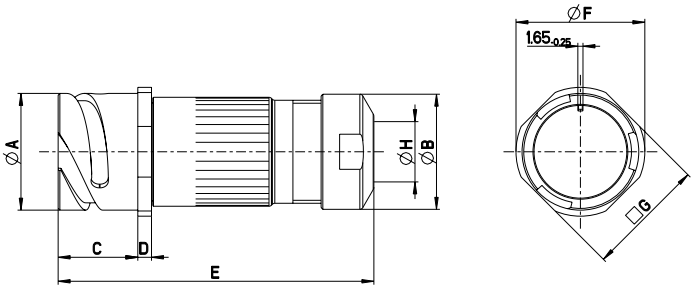
## Modification
13 – shielded version, solder pot contacts (for CA06 only)
14 – shielded version, metric crimp contacts (for CA06 only)
15 – shielded version, AWG crimp contacts (for CA06 only)
A176 – gold plated contact, see pages 54-55
A239 – Zinc Cobalt black plating, VG approved
A232 – Zinc cobalt black plating
A233 – Zinc cobalt green plating
A240 – Zinc Nickel blue grey plating
F0 – less contacts, contacts to be ordered separately, see page 54-59

## Cable Connecting Receptacle with universal endbell

Endbell: Universal Endbell
Shielding: Yes
Sealing: IP67, IP68, IP69K in mated condition

CA01X…
Straight receptacle for cable connection with universal endbell.

Please pay attention that the diameter of the cable is within the range ØH.



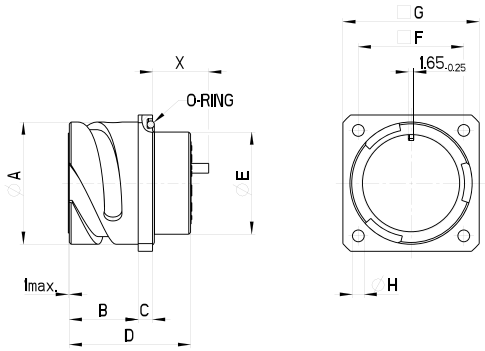

| Part no. | ØA -0.15 | ØB ± 0,2 | C + 0,4 | D ± 0,2 | E max | ØF max | G ± 0,2 | ØH Range min | | max | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CA01X10SL-**…D07… | 18.2 | 17.9 | 18.2 | 2.8 | 85 | 25.2 | 20.6 | 4.5 | - | 7.2 | mm |
| CA01X14S-**…D07… | 24.6 | 17.9 | 18.2 | 3.2 | 87 | 29.8 | 25.4 | 4.5 | - | 7.2 | mm |
| CA01X14S-**…D09… | 24.6 | 21.0 | 18.2 | 3.2 | 87 | 29.8 | 25.4 | 6.5 | - | 9.3 | mm |
| CA01X14S-**…D11… | 24.6 | 24.0 | 18.2 | 3.2 | 87 | 29.8 | 25.4 | 8.0 | - | 10.3 | mm |
| CA01X18-**…D11… | 30.8 | 24.0 | 23.05 | 4.0 | 93 | 34.8 | 31.7 | 8.0 | - | 10.3 | mm |
| CA01X18-**…D13… | 30.8 | 27.4 | 23.05 | 4.0 | 93 | 34.8 | 31.7 | 9.0 | - | 12.5 | mm |
| CA01X18-**…D14… | 30.8 | 30.0 | 23.05 | 4.0 | 93 | 34.8 | 31.7 | 11.5 | - | 14.2 | mm |
| CA01X20-**…D07… | 34.2 | 17.9 | 23.05 | 4.0 | 96 | 37.8 | 34.9 | 4.5 | - | 7.2 | mm |
| CA01X20-**…D09… | 34.2 | 21.0 | 23.05 | 4.0 | 96 | 37.8 | 34.9 | 6.5 | - | 9.3 | mm |
| CA01X20-**…D11… | 34.2 | 24.0 | 23.05 | 4.0 | 96 | 37.8 | 34.9 | 8.0 | - | 10.3 | mm |
| CA01X20-**…D13… | 34.2 | 27.4 | 23.05 | 4.0 | 96 | 37.8 | 34.9 | 9.0 | - | 12.5 | mm |
| CA01X20-**…D17… | 34.2 | 33.6 | 23.05 | 4.0 | 96 | 37.8 | 34.9 | 14.5 | - | 16.6 | mm |
| CA01X22-**…D13… | 37.4 | 27.4 | 23.05 | 4.0 | 100 | 41.1 | 38.1 | 9.0 | - | 12.5 | mm |
| CA01X22-**…D14… | 37.4 | 30.0 | 23.05 | 4.0 | 100 | 41.1 | 38.1 | 11.5 | - | 14.2 | mm |
| CA01X22-**…D17… | 37.4 | 33.6 | 23.05 | 4.0 | 100 | 41.1 | 38.1 | 14.5 | - | 16.6 | mm |
| CA01X28-**…D17… | 37.4 | 33.6 | 24.05 | 4.0 | 108 | 50.9 | 47.6 | 14.5 | - | 16.6 | mm |

## Box Mounting Receptacle for front panel mounting

Endbell: None
Shielding: None
Sealing: IP67, IP68, IP69K in mated condition

CA02X…-B…
Box Mounting Receptacle

Front Panel Mounting with O-Ring Sealing for IP69K




| Part no. | A -0.15 | B + 0,4 | C ± 0,2 | D ± 0,3 | E max | F ± 0,1 | G ± 0,3 | H H13 | X / Contact size 15 | 25 | 100 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CA02X10SL-**-P*-B | 18.2 | 14.2 | 2.8 | 24.7 | 16.2 | 18.2 | 25.4 | 3.2 | 13.6 | - | - |
| CA02X14S-**-P*-B | 24.6 | 14.2 | 3.2 | 24.7 | 19.2 | 23 | 30 | 3.2 | 13.2 | - | - |
| CA02X18-**-P*-B | 30.8 | 19.0 | 4.0 | 33.8 | 25.6 | 27.0 | 35.0 | 3.2 | 17.1 | 17.1 | 18.7 |
| CA02X20-**-P*-B | 34.2 | 19.0 | 4.0 | 33.8 | 29.0 | 29.4 | 38.0 | 3.2 | 17.1 | 17.1 | 18.7 |
| CA02X22-**-P*-B | 37.4 | 19 | 4.0 | 33.8 | 32.2 | 31.8 | 41 | 3.2 | 17.1 | 17.1 | 18.7 |
| CA02X28-**-P*-B | 46.7 | 20.6 | 4.0 | 33.8 | 41.4 | 39.7 | 50.8 | 3.7 | 15.5 | 15.5 | 17.1 |

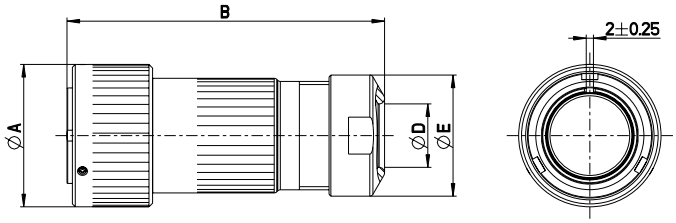
Dimensions shown in mm
Specifications and dimensions subject to change

## Straight Plug with universal endbell

Endbell: Universal Endbell
Shielding: Yes, with Modification Code
Sealing: IP67, IP68, IP69K in mated condition

CA06X…-B…
Straight plug with universal endbell.

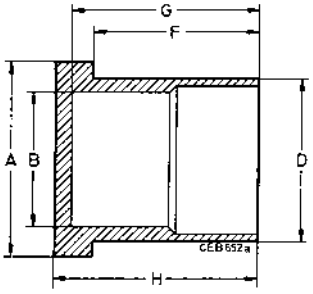
Please pay attention that the diameter of the cable is within the sealing range ØD.




| Part no. | ØA max | B max | ØE ± 0,2 | ØD Sealing Range min | | max | |
|---|---|---|---|---|---|---|---|
| CA06X10SL-**…D07… | 22.8 | 82 | 17.9 | 4.5 | - | 7.2 | mm |
| CA06X14S-**…D07… | 29.2 | 82 | 17.9 | 4.5 | - | 7.2 | mm |
| CA06X14S-**…D09… | 29.2 | 82 | 21.0 | 6.5 | - | 9.3 | mm |
| CA06X14S-**…D11… | 29.2 | 82 | 24.0 | 8.0 | - | 10.3 | mm |
| CA06X18-**…D11… | 36.5 | 88 | 24.0 | 8.0 | - | 10.3 | mm |
| CA06X18-**…D13… | 36.5 | 88 | 27.4 | 9.0 | - | 12.5 | mm |
| CA06X18-**…D14… | 36.5 | 88 | 30.0 | 11.5 | - | 14.2 | mm |
| CA06X20-**…D07… | 39.9 | 92 | 17.9 | 4.5 | - | 7.2 | mm |
| CA06X20-**…D09… | 39.9 | 92 | 21.0 | 6.5 | - | 9.3 | mm |
| CA06X20-**…D11… | 39.9 | 92 | 24.0 | 8.0 | - | 10.3 | mm |
| CA06X20-**…D13… | 39.9 | 92 | 27.4 | 9.0 | - | 12.5 | mm |
| CA06X20-**…D14… | 39.9 | 92 | 27.4 | 9.0 | - | 12.5 | mm |
| CA06X20-**…D17… | 39.9 | 92 | 33.6 | 14.5 | - | 16.6 | mm |
| CA06X22-**…D13… | 43.1 | 98 | 27.4 | 9.0 | - | 12.5 | mm |
| CA06X22-**…D14… | 43.1 | 98 | 30.0 | 11.5 | - | 14.2 | mm |
| CA06X22-**…D17… | 43.1 | 98 | 33.6 | 14.5 | - | 16.6 | mm |
| CA06X28-**…D14… | 43.1 | 98 | 33.6 | 14.5 | - | 16.6 | mm |
| CA06X28-**…D17… | 53.4 | 105 | 33.6 | 14.5 | - | 16.6 | mm |

Dimensions shown in mm
Specifications and dimensions subject to change

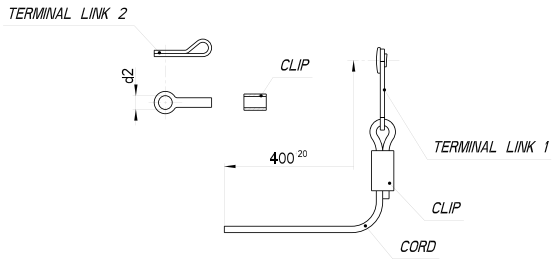
## Plastic Protecting Caps

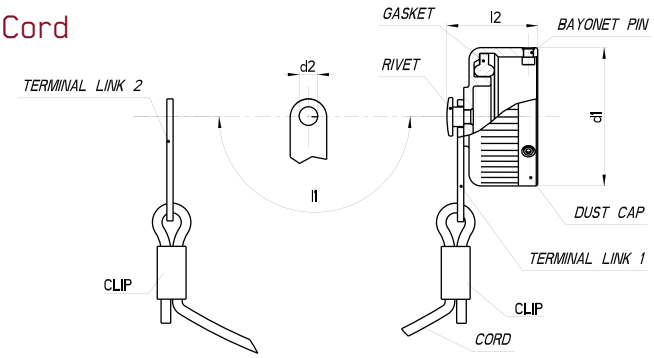



| Part no. | Protecting cap for Receptacles Shell size | Plugs Shell size | Ø A max. | Ø B -0,2 | Ø D +0,2 | F ±0,2 | G ±0,2 | H max. |
|---|---|---|---|---|---|---|---|---|
| 025-8636-005 | 10S/10SL | – | 22,8 | 17,7 | 19,7 | 10,7 | 14,2 | 15,9 |
| 025-8636-006 | – | 10S/10SL | 22,8 | 10,7 | 12,9 | 15,5 | 17,0 | 18,7 |
| 025-8636-008 | – | 12S | 26,0 | 13,4 | 15,8 | 15,5 | 17,0 | 18,7 |
| 025-8636-010 | 12S/12 | – | 26,0 | 20,9 | 22,9 | 10,7 | 14,2 | 15,9 |
| 025-8636-016 | 14S/14 | – | 29,2 | 24,1 | 26,1 | 10,7 | 14,2 | 15,9 |
| 025-8636-017 | – | 14S | 29,2 | 16,5 | 19,1 | 15,5 | 17,0 | 18,7 |
| 025-8636-018 | – | 14 | 29,2 | 16,5 | 19,1 | 20,2 | 21,7 | 23,4 |
| 025-8636-022 | – | 16S | 32,0 | 19,8 | 22,4 | 15,5 | 17,0 | 18,7 |
| 025-8636-024 | – | 16 | 32,0 | 19,8 | 22,4 | 20,2 | 21,7 | 23,4 |
| 025-8636-025 | 16S | – | 32,0 | 26,9 | 28,9 | 10,7 | 14,2 | 15,9 |
| 025-8636-026 | 16 | – | 32,0 | 26,9 | 28,9 | 17,5 | 19,0 | 20,7 |
| 025-8636-034 | 18 | – | 36,5 | 30,3 | 32,3 | 17,5 | 19,0 | 20,7 |
| 025-8636-036 | – | 18 | 36,5 | 23,0 | 25,6 | 20,2 | 21,7 | 23,4 |
| 025-8636-042 | 20 | – | 39,9 | 33,7 | 35,7 | 17,5 | 19,0 | 20,7 |
| 025-8636-044 | – | 20 | 39,9 | 26,1 | 28,8 | 20,2 | 21,7 | 23,4 |
| 025-8636-048 | – | 22 | 43,1 | 29,2 | 31,9 | 20,2 | 21,7 | 23,4 |
| 025-8636-049 | 22 | – | 43,1 | 36,9 | 38,9 | 17,5 | 19,0 | 20,7 |
| 025-8636-053 | 24 | – | 46,6 | 40,4 | 42,4 | 19,1 | 20,6 | 22,3 |
| 025-8636-054 | – | 24 | 46,6 | 32,4 | 35,1 | 20,2 | 21,7 | 23,4 |
| 025-8636-058 | 28 | – | 53,4 | 46,2 | 48,2 | 19,1 | 20,6 | 22,3 |
| 025-8636-060 | – | 28 | 53,4 | 38,0 | 40,7 | 20,2 | 21,7 | 23,4 |
| 025-8636-061 | – | 32 | 60,1 | 44,3 | 47,2 | 20,2 | 21,7 | 23,4 |
| 025-8636-062 | 32 | – | 64,9 | 52,9 | 54,9 | 20,7 | 22,2 | 23,9 |
| 025-8636-064 | 36 | – | 71,1 | 59,1 | 60,1 | 20,7 | 22,2 | 23,9 |
| 025-8636-065 | – | 36 | 66,3 | 49,7 | 51,6 | 20,2 | 21,7 | 23,4 |

Dimensions shown in mm
Specifications and dimensions subject to change

## Metal Protecting Caps for Receptacles with Cord




Dust caps delivered with terminal link unassembled

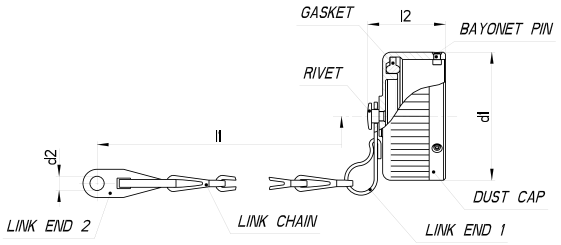
| Shell size | VG95234* | Cannon A66 | Cord length (mm) | $d_2$ +0,5 |
|---|---|---|---|---|
| 10SL | VG95234KA10SL | CAB81-10SL-D | 400 | 4.3 |
| 12S | - | CAB81-12S-D | 400 | 4.3 |
| 14S | VG95234KA14S | CAB81-14S-D | 400 | 4.3 |
| 16S | VG95234KA16S | CAB81-16S-D | 400 | 4.3 |
| 16 | VG95234KA16 | CAB81-16-D | 400 | 4.3 |
| 18 | VG95234KA18 | CAB81-18-D | 400 | 4.3 |
| 20 | VG95234KA20 | CAB81-20-D | 400 | 4.3 |
| 22 | VG95234KA22 | CAB81-22-D | 400 | 4.3 |
| 24 | VG95234KA24 | CAB81-24-D | 400 | 4.3 |
| 28 | VG95234KA28 | CAB81-28-D | 400 | 5.5 |
| 32 | VG95234KA32 | CAB81-32-D | 400 | 5.5 |
| 36 | VG95234KA36 | CAB81-36-D | 400 | 5.5 |

Dust caps delivered with terminal link assembled (cord length $l_1$)

| A66*** | A239 | A240 | $d_1$ max. | $d_2$ +0,5 | $l_1$ ±10 | $l_2$ max. |
|---|---|---|---|---|---|---|
| CA121003-901 | CA121003-1181 | CA121003-1161 | 23.4 | 4.3 | 100 | 19.5 |
| CA121003-902 | CA121003-1182 | CA121003-1162 | 26.6 | 4.3 | 100 | 19.5 |
| CA121003-903 | CA121003-1183 | CA121003-1163 | 29.8 | 4.3 | 100 | 19.5 |
| CA121003-904 | CA121003-1184 | CA121003-1164 | 32.6 | 4.3 | 100 | 19.5 |
| CA121003-905 | CA121003-1185 | CA121003-1165 | 32.6 | 4.3 | 113 | 24.5 |
| CA121003-906 | CA121003-1186 | CA121003-1166 | 36.7 | 4.3 | 113 | 24.5 |
| CA121003-907 | CA121003-1187 | CA121003-1167 | 40.1 | 4.3 | 127 | 24.5 |
| CA121003-908 | CA121003-1188 | CA121003-1168 | 43.3 | 4.3 | 127 | 24.5 |
| CA121003-909 | CA121003-1189 | CA121003-1169 | 46.8 | 4.3 | 127 | 24.5 |
| CA121003-910 | CA121003-1190 | CA121003-1170 | 52.6 | 5.5 | 169 | 24.5 |
| CA121003-911 | CA121003-1191 | CA121003-1171 | 59.3 | 5.5 | 169 | 24.5 |
| CA121003-912 | CA121003-1192 | CA121003-1172 | 65.5 | 5.5 | 169 | 24.5 |

* Also available with VG approved ZnCo black plating. Add modification code -H, for example: VG95234KA10SLH.

## Metal Protecting Caps for Receptacles with Chain



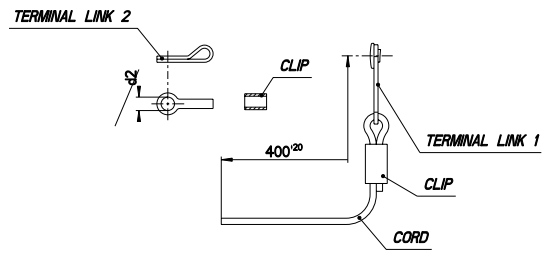

Dust caps delivered with terminal link assembled (cord length $l_1$)

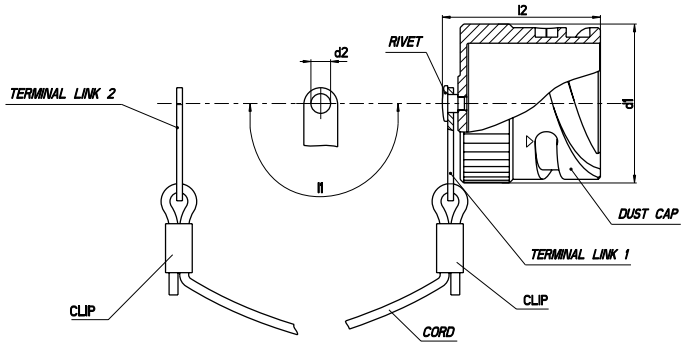
| Shell size | VG95234* | Cannon A66 | A232 | A233 | A239 | A240 | $d_1$ max. | $d_2$ +0,5 | $l_1$ ±10 | $l_2$ max. |
|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | VG95234KR10SL | CA121003-1 | CA121003-71 | CA121003-121 | CA121003-141 | CA121003-161 | 23.4 | 4.3 | 100 | 19.5 |
| 12S | - | CA121003-2 | CA121003-72 | CA121003-122 | CA121003-142 | CA121003-162 | 26.6 | 4.3 | 100 | 19.5 |
| 14S | VG95234KR14S | CA121003-3 | CA121003-73 | CA121003-123 | CA121003-143 | CA121003-163 | 29.8 | 4.3 | 100 | 19.5 |
| 16S | VG95234KR16S | CA121003-4 | CA121003-74 | CA121003-124 | CA121003-144 | CA121003-164 | 32.6 | 4.3 | 100 | 19.5 |
| 16 | VG95234KR16 | CA121003-5 | CA121003-75 | CA121003-125 | CA121003-145 | CA121003-165 | 32.6 | 4.3 | 113 | 24.5 |
| 18 | VG95234KR18 | CA121003-6 | CA121003-76 | CA121003-126 | CA121003-146 | CA121003-166 | 36.7 | 4.3 | 113 | 24.5 |
| 20 | VG95234KR20 | CA121003-7 | CA121003-77 | CA121003-127 | CA121003-147 | CA121003-167 | 40.1 | 4.3 | 127 | 24.5 |
| 22 | VG95234KR22 | CA121003-8 | CA121003-78 | CA121003-128 | CA121003-148 | CA121003-168 | 43.3 | 4.3 | 127 | 24.5 |
| 24 | VG95234KR24 | CA121003-9 | CA121003-79 | CA121003-129 | CA121003-149 | CA121003-169 | 46.8 | 4.3 | 127 | 24.5 |
| 28 | VG95234KR28 | CA121003-10 | CA121003-80 | CA121003-130 | CA121003-150 | CA121003-170 | 52.6 | 5.5 | 169 | 24.5 |
| 32 | VG95234KR32 | CA121003-11 | CA121003-81 | CA121003-131 | CA121003-151 | CA121003-171 | 59.3 | 5.5 | 169 | 24.5 |
| 36 | VG95234KR36 | CA121003-12 | CA121003-82 | CA121003-132 | CA121003-152 | CA121003-172 | 65.5 | 5.5 | 169 | 24.5 |

* Also available with VG approved ZnCo black plating. Add modification code -H, for example:VG95234KR10SLH.

Dimensions shown in mm
Specifications and dimensions subject to change

## Metal Protecting Caps for Plugs with Cord




Dust caps delivered with terminal link unassembled

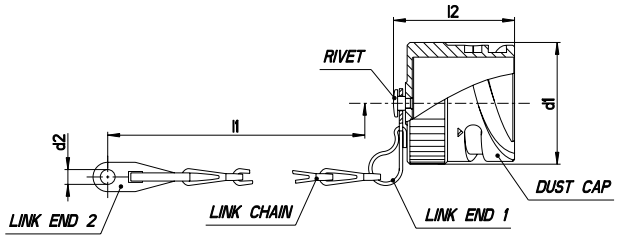
| Shell size | VG95234* | Cannon A66 | Cord length (mm) | $d_2$ +0,5 |
|---|---|---|---|---|
| 10SL | VG95234KC10SL | CAB80-10SL-D | 400 | 4.3 |
| 12S | - | CAB80-12S-D | 400 | 4.3 |
| 14S | VG95234KC14S | CAB80-14S-D | 400 | 4.3 |
| 16S | VG95234KC16S | CAB80-16S-D | 400 | 4.3 |
| 16 | VG95234KC16 | CAB80-16-D | 400 | 4.3 |
| 18 | VG95234KC18 | CAB80-18-D | 400 | 4.3 |
| 20 | VG95234KC20 | CAB80-20-D | 400 | 4.7 |
| 22 | VG95234KC22 | CAB80-22-D | 400 | 4.7 |
| 24 | VG95234KC24 | CAB80-24-D | 400 | 4.7 |
| 28 | VG95234KC28 | CAB80-28-D | 400 | 4.7 |
| 32 | VG95234KC32 | CAB80-32-D | 400 | 5.5 |
| 36 | VG95234KC36 | CAB80-36-D | 400 | 5.5 |

Dust caps delivered with terminal link assembled (cord length $l_1$)

| A66 | A239 | A240*** | $d_1$ max. | $d_2$ +0,5 | $l_1$ ±10 | $l_2$ max. |
|---|---|---|---|---|---|---|
| CA121004-901 | CA121004-1141 | CA121004-1161 | 20.7 | 4.3 | 100 | 29 |
| CA121004-902 | CA121004-1142 | CA121004-1162 | 23.9 | 4.3 | 113 | 29 |
| CA121004-903 | CA121004-1143 | CA121004-1163 | 27.1 | 4.3 | 113 | 29 |
| CA121004-904 | CA121004-1144 | CA121004-1164 | 29.9 | 4.3 | 113 | 29 |
| CA121004-905 | CA121004-1145 | CA121004-1165 | 29.9 | 4.3 | 127 | 37 |
| CA121004-906 | CA121004-1146 | CA121004-1166 | 33.3 | 4.3 | 127 | 37 |
| CA121004-907 | CA121004-1147 | CA121004-1167 | 36.7 | 4.7 | 140 | 37 |
| CA121004-908 | CA121004-1148 | CA121004-1168 | 39.9 | 4.7 | 140 | 37 |
| CA121004-909 | CA121004-1149 | CA121004-1169 | 43.4 | 4.7 | 140 | 37 |
| CA121004-910 | CA121004-1150 | CA121004-1170 | 49.2 | 4.7 | 197 | 37 |
| CA121004-911 | CA121004-1151 | CA121004-1171 | 55.9 | 5.5 | 197 | 37 |
| CA121004-912 | CA121004-1152 | CA121004-1172 | 62.1 | 5.5 | 197 | 37 |

* Also available with VG approved ZnCo black plating. Add modification code -H, for example: VG95234KC10SLH.

## Metal Protecting Caps for Plugs with Chain




Dust caps delivered with terminal link assembled (cord length $l_1$)

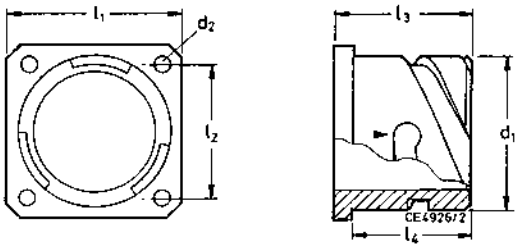
| Shell size | VG95234* | Cannon A66 | A232 | A233 | A239 | A240 | $d_1$ max. | $d_2$ +0,5 | $l_1$ ±10 | $l_2$ max. |
|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | VG95234KB10SL | CA121004-1 | CA121004-71 | CA121004-121 | CA121004-141 | CA121004-161 | 20.7 | 4.3 | 100 | 29 |
| 12S | - | CA121004-2 | CA121004-72 | CA121004-122 | CA1t21004-142 | CA121004-162 | 23.9 | 4.3 | 113 | 29 |
| 14S | VG95234KB14S | CA121004-3 | CA121004-73 | CA121004-123 | CA121004-143 | CA121004-163 | 27.1 | 4.3 | 113 | 29 |
| 16S | VG95234KB16S | CA121004-4 | CA121004-74 | CA121004-124 | CA121004-144 | CA121004-164 | 29.9 | 4.3 | 113 | 29 |
| 16 | VG95234KB16 | CA121004-5 | CA121004-75 | CA121004-125 | CA121004-145 | CA121004-165 | 29.9 | 4.3 | 127 | 37 |
| 18 | VG95234KB18 | CA121004-6 | CA121004-76 | CA121004-126 | CA121004-146 | CA121004-166 | 33.3 | 4.3 | 127 | 37 |
| 20 | VG95234KB20 | CA121004-7 | CA121004-77 | CA121004-127 | CA121004-147 | CA121004-167 | 36.7 | 4.7 | 140 | 37 |
| 22 | VG95234KB22 | CA121004-8 | CA121004-78 | CA121004-128 | CA121004-148 | CA121004-168 | 39.9 | 4.7 | 140 | 37 |
| 24 | VG95234KB24 | CA121004-9 | CA121004-79 | CA121004-129 | CA121004-149 | CA121004-169 | 43.4 | 4.7 | 140 | 37 |
| 28 | VG95234KB28 | CA121004-10 | CA121004-80 | CA121004-130 | CA121004-150 | CA121004-170 | 49.2 | 4.7 | 197 | 37 |
| 32 | VG95234KB32 | CA121004-11 | CA121004-81 | CA121004-131 | CA121004-151 | CA121004-171 | 55.9 | 5.5 | 197 | 37 |
| 36 | VG95234KB36 | CA121004-12 | CA121004-82 | CA121004-132 | CA121004-152 | CA121004-172 | 62.1 | 5.5 | 197 | 37 |

* Also available with VG approved ZnCo black plating. Add modification code -H, for example:VG95234KB10SLH.

Dimensions shown in mm
Specifications and dimensions subject to change

## Dummy Receptacles

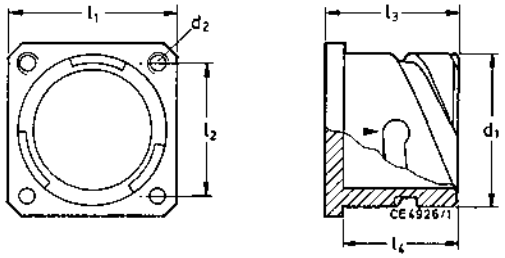
Front panel mounting (rear side open)
**VG95234 Style BOD (Flange with through-holes)**
CA3105-B




| Shell size | VG95234 Part No. | Cannon Part No. | $d_1$ -0,15 | $d_2$ ±0,2 | $l_1$ ±0,3 | $l_2$ ±0,1 | $l_3$ max. | $l_4$ +0,3 |
|---|---|---|---|---|---|---|---|---|
| 10SL | VG95234BOD10SL | CA3105E10SL-B | 18,2 | 3,2 | 25,4 | 18,2 | 17,5 | 14,2 |
| 12S | | CA3105E12S-B | 21,4 | 3,2 | 28,0 | 20,6 | 18,0 | 14,2 |
| 14S | VG95234BOD14S | CA3105E14S-B | 24,6 | 3,2 | 30,0 | 23,0 | 18,0 | 14,2 |
| 16S | VG95234BOD16S | CA3105E16S-B | 27,4 | 3,2 | 32,5 | 24,6 | 18,0 | 14,2 |
| 16 | VG95234BOD16 | CA3105E16-B | 27,4 | 3,2 | 32,5 | 24,6 | 23,5 | 19,0 |
| 18 | VG95234BOD18 | CA3105E18-B | 30,8 | 3,2 | 35,0 | 27,0 | 23,5 | 19,0 |
| 20 | VG95234BOD20 | CA3105E20-B | 34,2 | 3,2 | 38,0 | 29,4 | 23,5 | 19,0 |
| 22 | VG95234BOD22 | CA3105E22-B | 37,4 | 3,2 | 41,0 | 31,8 | 23,5 | 19,0 |
| 24 | VG95234BOD24 | CA3105E24-B | 40,9 | 3,7 | 44,5 | 34,9 | 25,5 | 20,6 |
| 28 | VG95234BOD28 | CA3105E28-B | 46,7 | 3,7 | 50,8 | 39,7 | 25,5 | 20,6 |
| 32 | VG95234BOD32 | CA3105E32-B | 53,4 | 4,3 | 57,0 | 44,5 | 27,0 | 22,2 |
| 36 | VG95234BOD36 | CA3105E36-B | 59,6 | 4,3 | 63,5 | 49,2 | 27,0 | 22,2 |

## Dummy Receptacles

Rear panel mounting (rear side closed).
Available as Style A with threaded holes and Style B with through holes.

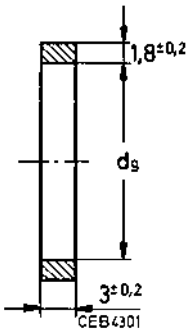



| Shell size | Cannon Part no. with threaded holes Style A | Cannon Part no. with through holes Style B | $d_1$ | $l_1$ ±0,25 | $l_2$ ±0,3 | $l_3$ | $l_4$ +0,3 | Style A $d_2$ | Style B $d_2$ ±0,3 |
|---|---|---|---|---|---|---|---|---|---|
| 10SL | 248-8513-000 | 248-8501-000 | 18,2 | 25,4 | 18,2 | 21,1 | 18,3 | M4 | 3,2 |
| 12S | 248-8514-000 | 248-8502-000 | 21,4 | 28,0 | 20,6 | 21,5 | 18,3 | M4 | 3,2 |
| 14S | 248-8515-000 | 248-8503-000 | 24,6 | 30,0 | 23,0 | 21,5 | 18,3 | M4 | 3,2 |
| 16S | 248-8516-000 | 248-8504-000 | 27,4 | 32,5 | 24,6 | 21,5 | 18,3 | M4 | 3,2 |
| 16 | 248-8517-000 | 248-8505-000 | 27,4 | 32,5 | 24,6 | 24,8 | 21,6 | M4 | 3,2 |
| 18 | 248-8518-000 | 248-8506-000 | 30,8 | 35,0 | 27,0 | 27,2 | 23,15 | M4 | 3,2 |
| 20 | 248-8519-000 | 248-8507-000 | 34,2 | 38,0 | 29,4 | 27,2 | 23,15 | M4 | 3,2 |
| 22 | 248-8520-000 | 248-8508-000 | 37,4 | 41,0 | 31,8 | 27,2 | 23,15 | M4 | 3,2 |
| 24 | 248-8521-000 | 248-8509-000 | 40,9 | 44,5 | 34,9 | 27,2 | 23,15 | M4 | 3,7 |
| 28 | 248-8522-000 | 248-8510-000 | 46,7 | 50,8 | 39,7 | 28,2 | 24,15 | M5 | 3,7 |
| 32 | 248-8523-000 | 248-8511-000 | 53,4 | 57,0 | 44,5 | 28,2 | 24,15 | M5 | 4,4 |
| 36 | 248-8524-000 | 248-8512-000 | 59,6 | 63,5 | 49,2 | 28,2 | 24,15 | M5 | 4,4 |

Dimensions shown in mm
Specifications and dimensions subject to change

## Sealing Rings

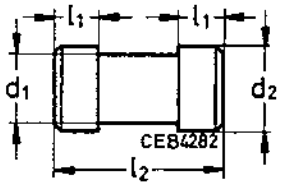
For use on the barrel of the plug; interfacial seal.




| Size | Part no. | $d_9$ |
|---|---|---|
| 10SL | 980-8550-000 | 9,0 |
| 12S | 980-8551-000 | 11,5 |
| 14S | 980-8552-000 | 14,0 |
| 16/16S | 980-8553-000 | 17,0 |
| 18 | 980-8554-000 | 19,5 |
| 20 | 980-8555-000 | 22,5 |
| 22 | 980-8556-000 | 25,4 |
| 24 | 980-8557-000 | 28,5 |
| 28 | 980-8558-000 | 34,0 |
| 32 | 980-8559-000 | 40,0 |
| 36 | 980-8560-000 | 45,0 |

## Wire Hole Fillers

Used to close unused contact cavities. Contacts have to be installed while the wire hole fillers are mounted into the relevant open grommet holes.

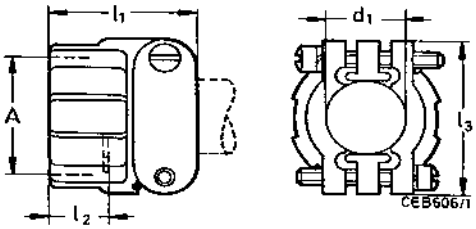



| Shell size | VG95234 Part No. | For contact size metr. | AWG | $d_1$ ±0,1 | $d_2$ ±0,2 | $l_1$ ±0,1 | $l_2$ ±0,3 | Colour | Part No. |
|---|---|---|---|---|---|---|---|---|---|
| 20 | VG95234B20 | 10 | | 2,3 | 3,0 | 2,4 | 9,7 | red | 225-1000-000 |
| 16S | VG95234B16S | 15S | 16S | 2,8 | 3,7 | 1,5 | 4,8 | natural | 225-8510-000 |
| 16 | VG95234B16 | 15S/15 | 16S/16 | 2,8 | 3,7 | 3,2 | 11,9 | blue | 225-0017-000 |
| 12 | VG95234B12 | 25/25A | 12 | 3,7 | 4,6 | 3,2 | 11,9 | yellow | 225-0018-000 |
| 8 | VG95234B08 | 60/100 | 8 | 5 | 5,8 | 3,2 | 11,9 | white | 225-0019-000 |
| 4 | VG95234B04 | 160 | 4 | 7,6 | 8,5 | 3,2 | 11,9 | green | 225-8502-000 |
| 0 | VG95234B00 | 500 | 0 | 12,8 | 13,5 | 3,2 | 11,9 | black | 225-8503-000 |

Dimensions shown in mm
Specifications and dimensions subject to change

## Cable Clamps

without telescoping bushing
**VG95234 Style KK**

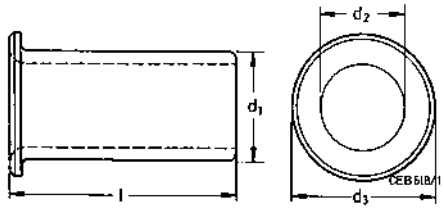



| VG95234 Part No. | Former Designation MS | Shell size suitable for connectors acc. MS | A-Thread | $l_2$ max. | $d_1$ max. | $l_1$ max. | $l_3$ max. | Max. Shell-Weight g |
|---|---|---|---|---|---|---|---|---|
| VG95234KK 4 | MS3057- 4A* | 10SL, 12S, | 5/8-24UNEF-2B | 10,5 | 7,9 | 20,8 | 22,5 | 15 |
| VG95234KK 6 | MS3057- 6A* | 14S, | 3/4-20UNEF-2B | 10,5 | 11,1 | 22,4 | 27,4 | 20 |
| VG95234KK 8 | MS3057- 8A* | 16S, 16 | 7/8-20UNEF-2B | 10,5 | 14,2 | 24,0 | 29,8 | 25 |
| VG95234KK10 | MS3057-10A* | 18 | 1-20UNEF-2B | 10,5 | 15,8 | 24,0 | 32,2 | 25 |
| VG95234KK12 | MS3057-12A* | 20, 22 | 1 3/16-18NEF-2B | 10,5 | 19,0 | 24,0 | 37,4 | 35 |
| VG95234KK16 | MS3057-16A* | 24, 28 | 1 7/16-18NEF-2B | 10,5 | 23,7 | 26,4 | 43,5 | 45 |
| VG95234KK20 | MS3057-20A* | 32 | 1 3/4-18NS-2B | 12,0 | 31,8 | 28,0 | 51,7 | 55 |
| VG95234KK24 | MS3057-24A* | 36 | 2-18NS-2B | 13,7 | 34,6 | 29,6 | 57,8 | 75 |

* WB = Cable clamp with telescoping bushing.

## Telescoping Bushings

Telescoping bushings (used with MS3057A resp. VG95234KK cable clamp) keep dirt, oil and dust out of the endbell. Taping or wrapping wires is eliminated since bushing protects wires guided through the clamp.
**Material: Polychloroprene**




| Shell size | VG95234 Part No. | Cannon Part no. | $d_1$ | $d_2$ | $d_3$ | l | Weight g |
|---|---|---|---|---|---|---|---|
| 10SL | VG95234KT10SL | 012-8552-000 | 8.0 | 6.6 | 9.9 | 70.0 | 4 |
| 14S | VG95234KT14S | 012-8554-000 | 10.9 | 9.1 | 12.7 | 67.0 | 5 |
| 16S, 16 | VG95234KT16 | 012-0218-000 | 14.0 | 11.1 | 19.0 | 64.0 | 6 |
| 18 | VG95234KT18 | 012-0219-000 | 15.7 | 14.3 | 22.0 | 60.0 | 4 |
| 20, 22 | VG95234KT20 | 012-0220-000 | 18.8 | 15.9 | 26.9 | 57.0 | 7 |
| 24, 28 | VG95234KT24 | 012-8556-000 | 23.6 | 21.5 | 33.3 | 54.0 | 13 |
| 32 | VG95234KT32 | 012-8558-000 | 31.5 | 26.8 | 40.4 | 51.0 | 26 |
| 36 | VG95234KT36 | 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 |

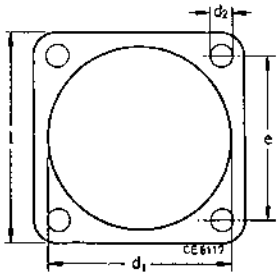
The Commercial versions allow for the following combinations of two bushings used together in order to decrease the inner diameter as required.

| 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 |

Dimensions shown in mm
Specifications and dimensions subject to change

# Gaskets

Thickness of gaskets =1,0 mm (Made of Polychloropren, mod. "1"). 0,5 mm (Made of Alu-Flex, mod. "2")
**VG95234 Style DA for front panel mounting**
**VG95234 Style DH for rear panel mounting**




## For front panel mounting

| Shell size | VG95234 Part No. | Part no. Version Polychloropen[1] | Part no. Version Alu-Flex[2] | l ±0,5 | e ±0,2 | $d_1$ +1 | $d_2$ +0,5 | Weight g max. |
|---|---|---|---|---|---|---|---|---|
| 10SL | VG95234 DA 10SL-X | 075-8512-000 | 075-8512-001 | 25,4 | 18,2 | 15,7 | 4,2 | 2 |
| 12S | | 075-8513-000 | 075-8513-001 | 28,0 | 20,6 | 18,9 | 4,2 | 2 |
| 14S | VG95234 DA 14S-X | 075-8514-000 | 075-8514-001 | 30,0 | 23,0 | 22,1 | 4,2 | 2 |
| 16/16S | VG95234 DA 16-X | 075-8515-000 | 075-8515-001 | 32,5 | 24,6 | 25,3 | 4,2 | 2 |
| 18 | VG95234 DA 18-X | 075-8516-000 | 075-8516-001 | 35,0 | 27,0 | 28,4 | 4,2 | 2 |
| 20 | VG95234 DA 20-X | 075-8517-000 | 075-8517-001 | 38,0 | 29,4 | 31,6 | 4,2 | 2 |
| 22 | VG95234 DA 22-X | 075-8518-000 | 075-8518-001 | 41,0 | 31,8 | 34,8 | 4,2 | 2 |
| 24 | VG95234 DA 24-X | 075-8519-000 | 075-8519-001 | 44,5 | 34,9 | 38,0 | 4,2 | 2 |
| 28 | VG95234 DA 28-X | 075-8520-000 | 075-8520-001 | 50,8 | 39,7 | 44,3 | 5,1 | 2 |
| 32 | VG95234 DA 32-X | 075-8521-000 | 075-8521-001 | 57,0 | 44,5 | 50,7 | 5,1 | 2 |
| 36 | VG95234 DA 36-X | 075-8522-000 | 075-8522-001 | 63,5 | 49,2 | 57,0 | 5,1 | 2 |

## For rear panel mounting

| Shell size | VG95234 Part No. | Part no. Version Polychloropen[1] | Part no. Version Alu-Flex[2] | l ±0,5 | e ±0,2 | $d_1$ +1 | $d_2$ +0,5 | Weight g max. |
|---|---|---|---|---|---|---|---|---|
| 10SL | VG95234 DH 10SL-X | 075-8501-000 | 075-8501-001 | 25,4 | 18,2 | 18,2 | 4,2 | 2 |
| 12S | | 075-8502-000 | 075-8502-001 | 28,0 | 20,6 | 21,4 | 4,2 | 2 |
| 14S | VG95234 DH 14S-X | 075-8503-000 | 075-8503-001 | 30,0 | 23,0 | 24,6 | 4,2 | 2 |
| 16/16S | VG95234 DH 16-X | 075-8504-000 | 075-8504-001 | 32,5 | 24,6 | 27,4 | 4,2 | 2 |
| 18 | VG95234 DH 18-X | 075-8505-000 | 075-8505-001 | 35,0 | 27,0 | 30,8 | 4,2 | 2 |
| 20 | VG95234 DH 20-X | 075-8506-000 | 075-8506-001 | 38,0 | 29,4 | 34,2 | 4,2 | 2 |
| 22 | VG95234 DH 22-X | 075-8507-000 | 075-8507-001 | 41,0 | 31,8 | 37,4 | 4,2 | 2 |
| 24 | VG95234 DH 24-X | 075-8508-000 | 075-8508-001 | 44,5 | 34,9 | 40,9 | 4,2 | 2 |
| 28 | VG95234 DH 28-X | 075-8509-000 | 075-8509-001 | 50,8 | 39,7 | 46,7 | 5,1 | 2 |
| 32 | VG95234 DH 32-X | 075-8510-000 | 075-85010-001 | 57,0 | 44,5 | 53,4 | 5,1 | 2 |
| 36 | VG95234 DH 36-X | 075-8511-000 | 075-85011-001 | 63,5 | 49,2 | 59,6 | 5,1 | 2 |

X = insert "1" (electrically non-conductive) or "2" (electrically conductive).

Dimensions shown in mm
Specifications and dimensions subject to change

## Pin contacts

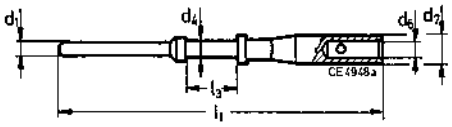
Standard contacts and contacts with reduced termination diameter

**Pin contacts**

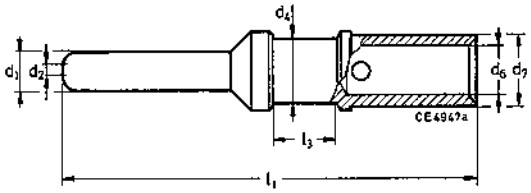
**Finish**

A36 – 5 µm silver plated and passivated

A176 – 2 µm nickel plated, min. 0,5 µm gold plated




Size 10/20




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

| Contact size | VG95234 Part No. | Wire size mm² | AWG | Part no. with finish Standard: A36 silver plated | Part no. with finish Mod. Code: A176 gold plated | $d_1$ -0,05 | $d_4$ | $d_6$ | $d_7$ | $l_1$ ±0,15 | $l_3$ ±0,5 | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/20 | VG95234P10 | 0,5-1,0 | 20/18 | 030-8585-009 | 030-8585-011 | 1,04 | 1,5 $^{+0,05}$ | 1,5 $^{+0,05}$ | 2,4 $^{-0,05}$ | 28,4 | 4,75 | – |
| | VG95234P10-001 | 0,2-0,4 | 26/22 | 030-8585-004 | 030-8585-008 | 1,04 | 1,5 $^{+0,05}$ | 0,9 $^{+0,05}$ | 2,4 $^{-0,05}$ | 28,4 | 4,75 | blue |
| 15S/16S | VG95234P15S | 0,75-1,5 | 18/16 | 030-8586-000 | 030-8586-006 | 1,6 | 1,75 $^{-0,1}$ | 1,75 $^{+0,08}$ | 2,75 $^{-0,05}$ | 27,4 | 3,85 | – |
| | VG95234P15S-002 | 0,3-0,6 | 22/20 | 330-8744-000 | 330-8744-006 | 1,6 | 1,75 $^{-0,1}$ | 1,2 $^{+0,1}$ | 2,75 $^{-0,05}$ | 27,4 | 3,85 | red |
| | VG95234P15S-001 | 0,14-0,38 | 22/26 | 030-8586-010 | 030-8586-016 | 1,6 | 1,75 $^{-0,1}$ | 0,9 $^{+0,05}$ | 2,75 $^{-0,05}$ | 27,4 | 3,85 | blue |
| 15/16 | VG95234P15 | 0,75-1,5 | 18/16 | 030-8587-000 | 030-8587-006 | 1,6 | 1,75 $^{-0,1}$ | 1,75 $^{+0,08}$ | 2,75 $^{-0,05}$ | 31,4 | 7,9 | – |
| | VG95234P15-002 | 0,3-0,6 | 22/20 | 330-8659-000 | 330-8659-006 | 1,6 | 1,75 $^{-0,1}$ | 1,2 $^{+0,1}$ | 2,75 $^{-0,05}$ | 31,4 | 7,9 | red |
| | VG95234P15-001 | 0,14-0,38 | 22/26 | 030-8587-030 | 030-8587-036 | 1,6 | 1,75 $^{-0,1}$ | 0,9 $^{+0,05}$ | 2,75 $^{-0,05}$ | 31,4 | 7,9 | blue |
| 25/12 | VG95234P25 | 2,0-3,0 | 14/12 | 030-8588-000 | 030-8588-006 | 2,4 | 3,3 $^{-0,15}$ | 2,5 $^{+0,1}$ | 3,8 $^{-0,1}$ | 37,0 | 7,9 | – |
| | VG95234P25-001 | 0,75-1,5 | 18/16 | 030-8588-010 | 030-8588-016 | 2,4 | 3,3 $^{-0,15}$ | 1,75 $^{+0,08}$ | 3,4 $^{-0,1}$ | 37,0 | 7,9 | black |
| | | 4,0 | – | 030-8588-054 | – | 2,4 | 3,3 $^{-0,15}$ | 2,8 $^{+0,1}$ | 3,8 $^{-0,1}$ | 37,0 | 7,9 | – |
| 60/100/8 | VG95234P8 | – | 8 | 030-8612-000 | 030-8612-006 | 3,6 | 6,25 $^{-0,15}$ | 4,55 $^{+0,1}$ | 6,8 $^{-0,1}$ | 39,6 | 6,35 | – |
| | VG95234P60 | 6,0 | 10 | 030-8589-000 | – | 3,6 | 6,25 $^{-0,15}$ | 3,5 $^{+0,1}$ | 6,8 $^{-0,1}$ | 39,6 | 6,35 | yellow |
| | VG95234P100 | 10,0 | – | 030-8590-000 | – | 3,6 | 6,25 $^{-0,15}$ | 4,8 $^{+0,1}$ | 6,8 $^{-0,1}$ | 39,6 | 6,35 | – |
| | VG95234P60-001 | 2,0-3,0 | 14/12 | 030-8612-010 | – | 3,6 | 6,25 $^{-0,15}$ | 2,5 $^{+0,05}$ | 6,8 $^{-0,1}$ | 39,6 | 6,35 | green |
| 160/4 | VG95234P4 | – | 4 | 030-8613-000 | – | 5,75 | 9,55 $^{-0,15}$ | 7,1 $^{+0,15}$ | 9,55 $^{-0,1}$ | 39,6 | 6,35 | – |
| | VG95234P160 | 16,0 | – | 030-8591-000 | – | 5,75 | 9,55 $^{-0,15}$ | 6,2 $^{+0,15}$ | 9,55 $^{-0,1}$ | 39,6 | 6,35 | – |
| | | 10,0 | – | 030-8591-020 | – | 5,75 | 9,55 $^{-0,15}$ | 4,8 $^{+0,1}$ | 9,55 $^{-0,1}$ | 39,6 | 6,35 | – |
| | VG95234P160-001 | – | 6 | 030-8613-010 | – | 5,75 | 9,55 $^{-0,15}$ | 5,7 $^{+0,1}$ | 9,55 $^{-0,1}$ | 39,6 | 6,35 | brown |
| 500/0 | VG95234P0 | – | 0 | 030-8614-000 | – | 9,1 | 13,55 $^{-0,15}$ | 11,5 $^{+0,15}$ | 14,35 $^{-0,1}$ | 41,0 | 6,35 | – |
| | VG95234P500 | 50,0 | – | 030-8592-000 | – | 9,1 | 13,55 $^{-0,15}$ | 10,7 $^{+0,15}$ | 14,35 $^{-0,1}$ | 41,0 | 6,35 | – |
| | VG95234P500-001 | 25,0 | 4 | 030-8614-010 | – | 9,1 | 13,55 $^{-0,15}$ | 7,6 $^{+0,15}$ | 14,35 $^{-0,1}$ | 41,0 | 6,35 | white |
| | VG95234P500-002 | 35,0 | 2 | 030-8614-020 | – | 9,1 | 13,55 $^{-0,15}$ | 9,1 $^{+0,15}$ | 14,35 $^{-0,1}$ | 41,0 | 6,35 | grey |
| | | 16,0 | – | 030-8614-030 | – | 9,1 | 13,55 $^{-0,15}$ | 6,2 $^{+0,15}$ | 14,35 $^{-0,1}$ | 41,0 | 6,35 | – |

Dimensions shown in mm

Specifications and dimensions subject to change

## Socket contacts

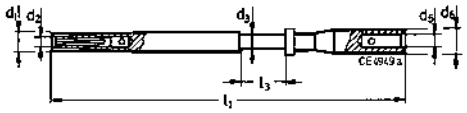
Standard contacts and contacts with reduced termination diameter

**Socket contacts**

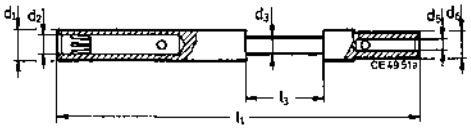
**Finish**

A36 – 5 $\mu$m silver plated and passivated

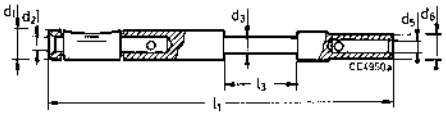
A176 – 2 $\mu$m nickel plated, min. 0,5 $\mu$m gold plated



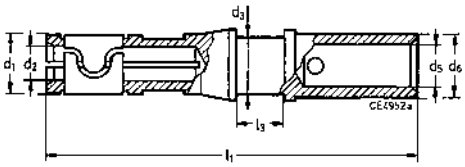

Size 10/20




Size 15S/16S, 15/16




Size 25/12




Size 60/100/8, 160/4, 500/0

| Contact size | VG95234 Part No. | Wire size mm$^2$ | AWG | Part no. with finish Standard: A36 silver plated | Part no. with finish Mod. Code: A176 gold plated | $d_1$ | $d_2$ +0,05 | $d_3$ | $d_5$ | $d_6$ | $l_1$ ±0,2 | $l_3$ ±0,1 | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/20 | VG95234S10 | 0,5-1,0 | 20/18 | 031-8554-009 | 031-8554-011 | 2,0 $^{-0,1}$ | 1,07 | 1,5 $^{-0,05}$ | 1,5 $^{+0,05}$ | 2,4 $^{-0,05}$ | 36,8 ±0,3 | 4,75 | – |
| | VG95234S10-001 | 0,2-0,4 | 26/22 | 031-8554-004 | 031-8554-008 | 2,0 $^{-0,1}$ | 1,07 | 1,5 $^{-0,05}$ | 0,9 $^{+0,05}$ | 2,4 $^{-0,05}$ | 36,8 ±0,3 | 4,75 | blue |
| 15S/16S | VG95234S15S | 0,75-1,5 | 18/16 | 031-8555-110 | 031-8555-115 | 3,2 $^{-0,15}$ | 1,65 | 1,75 $^{-0,1}$ | 1,75 $^{+0,08}$ | 2,75 $^{-0,05}$ | 29,1 | 3,9 | – |
| | VG95234S15S-002 | 0,3-0,6 | 22/20 | 031-8688-110 | 031-8688-115 | 3,2 $^{-0,15}$ | 1,65 | 1,75 $^{-0,1}$ | 1,20 $^{+0,1}$ | 2,75 $^{-0,05}$ | 29,1 | 3,9 | red |
| | VG95234S15S-001 | 0,14-0,38 | 22/26 | 031-8555-130 | 031-8555-135 | 3,2 $^{-0,15}$ | 1,65 | 1,75 $^{-0,1}$ | 0,90 $^{+0,05}$ | 2,75 $^{-0,05}$ | 29,1 | 3,9 | blue |
| 15/16 | VG95234S15 | 0,75-1,5 | 18/16 | 031-8556-110 | 031-8556-115 | 3,2 $^{-0,15}$ | 1,65 | 1,75 $^{-0,1}$ | 1,75 $^{+0,08}$ | 2,75 $^{-0,05}$ | 37,8 | 7,9 | – |
| | VG95234S15-002 | 0,3-0,6 | 22/20 | 031-8639-120 | 031-8639-115 | 3,2 $^{-0,15}$ | 1,65 | 1,75 $^{-0,1}$ | 1,2 $^{+0,1}$ | 2,75 $^{-0,05}$ | 37,8 | 7,9 | red |
| | VG95234S15-001 | 0,14-0,38 | 22/26 | 031-8556-130 | 031-8556-135 | 3,2 $^{-0,15}$ | 1,65 | 1,75 $^{-0,1}$ | 0,9 $^{+0,05}$ | 2,75 $^{-0,05}$ | 37,8 | 7,9 | blue |
| 25/12 | VG95234S25 | 2,0-3,0 | 14/12 | 031-8557-000 | 031-8557-006 | 4,8 $^{-0,1}$ | 2,45 | 3,3 $^{-0,1}$ | 2,5 $^{+0,1}$ | 3,8 $^{-0,1}$ | 37,0 | 7,9 | – |
| | VG95234S25-001 | 0,75-1,5 | 18/16 | 031-8557-020 | 031-8557-026 | 4,8 $^{-0,1}$ | 2,45 | 3,3 $^{-0,1}$ | 1,75 $^{+0,08}$ | 3,4 $^{-0,1}$ | 37,0 | 7,9 | black |
| | | 4,0 | – | 031-8557-010 | – | 4,8 $^{-0,1}$ | 2,45 | 3,3 $^{-0,1}$ | 2,8 $^{+0,1}$ | 3,8 $^{-0,1}$ | 37,0 | 7,9 | – |
| | | 0,3–0,6 | 22/20 | 031-8557-040 | – | 4,8 $^{-0,1}$ | 2,45 | 3,3 $^{-0,1}$ | 1,2 $^{+0,1}$ | 2,75 $^{-0,1}$ | 37,0 | 7,9 | – |
| 60/100/8 | VG95234S8 | – | 8 | 031-8519-000 | 031-8519-006 | 6,5 $^{-0,2}$ | 3,65 | 6,25 $^{-0,2}$ | 4,55 $^{+0,1}$ | 6,8 $^{-0,1}$ | 40,1 | 6,35 | – |
| | VG95234S60 | 6,0 | 10 | 031-8558-000 | – | 6,5 $^{-0,2}$ | 3,65 | 6,25 $^{-0,2}$ | 3,5 $^{+0,1}$ | 6,8 $^{-0,1}$ | 40,1 | 6,35 | yellow |
| | VG95234S100 | 10,0 | – | 031-8559-000 | – | 6,5 $^{-0,2}$ | 3,65 | 6,25 $^{-0,2}$ | 4,8 $^{+0,1}$ | 6,8 $^{-0,1}$ | 40,1 | 6,35 | – |
| | VG95234S60-001 | 2,0-3,0 | 14/12 | 031-8519-010 | – | 6,5 $^{-0,2}$ | 3,65 | 6,25 $^{-0,2}$ | 2,5 $^{+0,05}$ | 6,8 $^{-0,1}$ | 40,1 | 6,35 | green |
| 160/4 | VG95234S4 | – | 4 | 031-8520-000 | – | 8,6 $^{-0,2}$ | 5,8 | 9,55 $^{-0,2}$ | 7,1 $^{+0,15}$ | 9,55 $^{-0,1}$ | 40,1 | 6,35 | – |
| | VG95234S160 | 16,0 | – | 031-8560-000 | – | 8,6 $^{-0,2}$ | 5,8 | 9,55 $^{-0,2}$ | 6,2 $^{+0,15}$ | 9,55 $^{-0,1}$ | 40,1 | 6,35 | – |
| | | 10,0 | – | 031-8560-020 | – | 8,6 $^{-0,2}$ | 5,8 | 9,55 $^{-0,2}$ | 4,8 $^{+0,1}$ | 9,55 $^{-0,1}$ | 40,1 | 6,35 | – |
| | VG95234S160-001 | – | 6 | 031-8520-010 | – | 8,6 $^{-0,2}$ | 5,8 | 9,55 $^{-0,2}$ | 5,7 $^{+0,15}$ | 9,55 $^{-0,1}$ | 40,1 | 6,35 | brown |
| 500/0 | VG95234S0 | – | 0 | 031-8521-000 | – | 13,2 $^{-0,2}$ | 9,15 | 13,55 $^{-0,2}$ | 11,5 $^{+0,15}$ | 14,35 $^{-0,1}$ | 41,6 | 6,35 | – |
| | VG95234S500 | 50,0 | – | 031-8561-000 | – | 13,2 $^{-0,2}$ | 9,15 | 13,55 $^{-0,2}$ | 10,7 $^{+0,15}$ | 14,35 $^{-0,1}$ | 41,6 | 6,35 | – |
| | VG95234S500-001 | 25,0 | 4 | 031-8521-010 | – | 13,2 $^{-0,2}$ | 9,15 | 13,55 $^{-0,2}$ | 7,6 $^{+0,15}$ | 14,35 $^{-0,1}$ | 41,6 | 6,35 | white |
| | VG95234S500-002 | 35,0 | 2 | 031-8521-020 | – | 13,2 $^{-0,2}$ | 9,15 | 13,55 $^{-0,2}$ | 9,1 $^{+0,15}$ | 14,35 $^{-0,1}$ | 41,6 | 6,35 | grey |
| | | 16,0 | – | 031-8521-030 | – | 13,2 $^{-0,2}$ | 9,15 | 13,55 $^{-0,2}$ | 6,2 $^{+0,15}$ | 14,35 $^{-0,1}$ | 41,6 | 6,35 | – |

Dimensions shown in mm

Specifications and dimensions subject to change

## CA Bayonet Layout Overview with standard contact wire size

The table below shows all available contact arrangements (layouts) available for ITT's CA Bayonet 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 11 for details. In this case, separate contacts can be selected according to contact selection tables on pages 54-55.

*The numbers represent modifications for contact termination as listed on page 12. E.g. CA3106E20-29S-B-14 is the modification for a shielded endbell with metric crimp contacts.

| Layout | No. of Contacts | Contact size | Contact Termination* | |
|---|---|---|---|---|
| | | | -01, -03, -04, - 14 | -F80, -02, -15, -109 |
| | | | wire size mm² | 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 |
| | 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 | 10/20 | 0,5-1,0 | 20/18 |
| 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* | |
|---|---|---|---|---|
| | | | -01, -03, -04, - 14 | -F80, -02, -15, -109 |
| | | | wire size mm² | 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* | |
|---|---|---|---|---|
| | | | -01, -03, -04, - 14 | -F80, -02, -15, -109 |
| | | | wire size mm² | 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 |

Dimensions shown in mm
Specifications and dimensions subject to change



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## VG Layout Overview with standard contact wire size

The table below shows all contact arrangements (VG layouts) permitted to be used under VG95234 standard.

For each layout the contact sizes and wire sizes used as default are shown. Generally, all contacts used according to VG95234 are crimp contacts.

If other crimp sizes are required the VG95234 standard allows to order a connector without contacts.

See ordering key on page 10 for details. In this case, separate contacts can be selected according to contact selection tables on pages 54-55.

* The numbers represent modifications for contact termination as listed on page 12. E.g. VG95234M20-22P2N is the modification for a shielded endbell with metric and AWG crimp contacts.

| Layout | No. of Contacts | Contact size | Contact Termination* | | | |
|---|---|---|---|---|---|---|
| | | | no identification | 1 | 2 | |
| | | | wire size mm² | wire size AWG | wire size mm² | wire size AWG |
| 10SL-3 | 3 | 15S | 0,75-1,5 | - | - | - |
| 10SL-4 | 2 | 15S | 0,75-1,5 | - | - | - |
| 14S-6 | 6 | 15S | 0,75-1,5 | - | - | - |
| 14S-7 | 3 | 15S | 0,75-1,5 | - | - | - |
| 16S-1 | 7 | 15S | 0,75-1,5 | - | - | - |
| 16S-4 | 2 | 15S | 0,75-1,5 | - | - | - |
| 16-7 | 2 | 15 | 0,75-1,5 | - | - | - |
| | 1 | 100 | 10.0 | - | - | - |
| 16-10 | 3 | 25 | 2,0-3,0 | - | - | - |
| 16-12 | 1 | 160 | 16.0 | - | - | - |
| 16A11 | 2 | 25/25A | 2,0-3,0 | - | - | - |
| 18-1 | 10 | 15 | 0,75-1,5 | - | - | - |
| 18-9 | 5 | 15 | 0,75-1,5 | - | - | - |
| | 2 | 25 | 2,0-3,0 | - | - | - |
| 18-11 | 5 | 25 | 2,0-3,0 | - | - | - |
| 18-13 | 3 | 25 | 2,0-3,0 | - | - | - |
| | 1 | 60 | 6.0 | - | - | - |
| 20-2 | 1 | 500 | 50.0 | - | - | - |
| 20-8 | 4 | 15 | 0,75-1,5 | - | - | - |
| | 2 | 100 | 10.0 | - | - | - |
| 20-22 | 3 | 15 | - | - | 0,75-1,5 | - |
| | 3 | 8 | - | - | - | 8 |
| 20A9 | 9 | 25 | 2,0-3,0 | - | - | - |
| 20A48 | 19 | 15 | 0,75-1,5 | - | - | - |
| 22-2 | 3 | 8 | - | 8 | - | - |
| 22-12 | 2 | 100 | 10.0 | - | - | - |
| | 3 | 15 | 0,75-1,5 | - | - | - |
| 22-14 | 19 | 15 | 0,75-1,5 | - | - | - |
| 22-22 | 4 | 100 | 10.0 | - | - | - |
| 22-27 | 1 | 60 | 6.0 | - | - | - |
| | 8 | 15 | 0,75-1,5 | - | - | - |
| 22B22 | 4 | 60 | 6.0 | - | - | - |
| 24-9 | 2 | 4 | - | 4 | - | - |
| 24-10 | 7 | 100 | - | - | - | - |
| 24-11 | 6 | 25 | 2,0-3,0 | 14/12 | - | - |
| | 3 | 100 | 10.0 | 8 | - | - |
| 24-12 | 3 | 12 | - | 14/12 | - | - |
| | 2 | 4 | - | 4 | - | - |
| 24-28 | 24 | 15 | 0,75-1,5 | - | - | - |
| 28-11 | 18 | 15 | 0,75-1,5 | - | - | - |
| | 4 | 25 | 2,0-3,0 | - | - | - |
| 28A16 | 5 | 15 | - | - | 0,75-1,5 | - |

| Layout | No. of Contacts | Contact size | Contact Termination* | | | |
|---|---|---|---|---|---|---|
| | | | no identification | 1 | 2 | |
| | | | wire size mm² | wire size AWG | wire size mm² | wire size AWG |
| | 4 | 4 | - | - | - | 4 |
| 28-20 | 4 | 15 | 0,75-1,5 | - | - | - |
| | 10 | 25 | 2,0-3,0 | - | - | - |
| 28-21 | 37 | 15 | 0,75-1,5 | - | - | - |
| 28-22 | 3 | 160 | 16.0 | 4 | - | - |
| | 3 | 15 | 0,75-1,5 | 18/16 | - | - |
| 28A63 | 19 | 15 | 0,75-1,5 | - | - | - |
| | 9 | 25 | 2,0-3,0 | - | - | - |
| 32-1 | 3 | 25 | 2,0-3,0 | 14/12 | - | - |
| | 2 | 500 | 50.0 | 0 | - | - |
| 32-6 | 16 | 15 | 0,75-1,5 | 18/16 | - | - |
| | 2 | 25 | 2,0-3,0 | 14/12 | - | - |
| | 3 | 60 | 6.0 | 8 | - | - |
| | 2 | 160 | 16.0 | 4 | - | - |
| 32-7 | 28 | 15 | 0,75-1,5 | - | - | - |
| | 7 | 25 | 2,0-3,0 | - | - | - |
| 32-15 | 6 | 25 | - | - | 2,0-3,0 | - |
| | 2 | 0 | - | - | - | 0 |
| 32A69 | 41 | 10 | 0,5-1,0 | - | - | - |
| | 20 | 15 | 0,75-1,5 | - | - | - |
| 36-3 | 3 | 500 | 50.0 | 0 | - | - |
| | 3 | 25 | 2,0-3,0 | 14/12 | - | - |
| 36-5 | 4 | 500 | 50.0 | 0 | - | - |
| 36-6 | 4 | 4 | - | 4 | - | - |
| | 2 | 0 | - | 0 | - | - |
| 36-10 | 48 | 15 | 0,75-1,5 | - | - | - |
| 36A35 | 4 | 15 | - | - | 0,75-1,5 | - |
| | 4 | 0 | - | - | - | 0 |

## Crimp Tools

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

| | Contact Size | Wire size mm² | AWG | Hand Crimp Tools | Order Reference | Crimp Locator | Order Reference |
|---|---|---|---|---|---|---|---|
| | 10 | 0,5-1,0 | 20/18 | M22520-1-01 | 995-0001-585 | 600325 | 121586-0034 |
| | | 0,2-0,4 | 26/22 | | | | |
| Pin | 15S/16S | 0,75-1,5 | 18/16 | | | TH 452 | 995-0002-052 |
| Pin | | 0,3-0,6 | 22/20 | | | | |
| Pin | | 0,14-0,38 | 22/26 | | | | |
| Socket | 15S/16S | 0,750-1,5 | 18/16 | | | | |
| Socket | | 0,3-0,6 | 22/20 | | | | |
| Socket | | 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 mm² | 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 | |

Dimensions shown in mm

Specifications and dimensions subject to change

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

H- Crimp Head

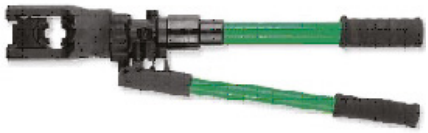
Electro Hydraulic Crimp Tool

Foot Pedal

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

Pump Handle with Reset Function

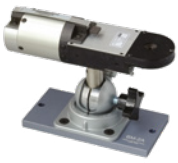
H- Crimp Head



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

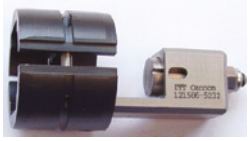
Foot pedal

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 |

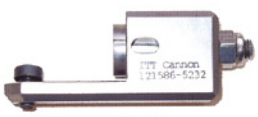
## Crimp Dies

| Product | Contact Size | Part Number | Hex. Diameter | Stamped label | Cable Size AWG | mm² |
|---|---|---|---|---|---|---|
| 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 MIL-C-5015/VG95234
2. Standard contacts acc. to MIL-C-5015/VG95234

* Datasheet available upon request

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Specifications and dimensions subject to change

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cannon


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Dimensions shown in mm

Specifications and dimensions subject to change

# Product Safety Information

**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 also application and are usually manufactured from either: Copper, copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

## 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 Sheet / Catalog 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 customer, and damage may create 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 shock could result from touching exposed contacts on an unmated connector. Voltages in excess of 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 have 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 Sheet / Catalog. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

## Important general information

(i) Air and creepage paths/Operating voltage. The admissible operating voltages depend on the individual applications and the valid national and other applicable safety regulations.

For this reason the air and creepage path data are only reference values. Observe reduction of air and creepage paths due to PC board and/or harnessing.

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

(iii) Other important information. Cannon continuously endeavors to improve their products. Therefore, Cannon products may deviate from the description, technical data and shape as shown in this catalog and data sheets.

Dimensions shown in mm
Specifications and dimensions subject to change

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