



CPE - SIGNAL, COMPACT & WATERTIGHT CONNECTOR SERIES

Easy use, in three shell sizes for control connections using 4, 7 or 12 pins

CPE Series

Description



Plug



Nut



Seal



Receptacle

The CPE series is built around 3 shell sizes (4, 7 and 12 contacts) each one consisting of a plug and a receptacle. The particularity of the CPE series is that it offers a wide range of standard accessories to be used on both plug or receptacle. Easy to use, and quick to implement, this small connector is recommended for all types of control/command applications.

ELECTRICAL

- Nominal Current: 13 A
- Rated Operating Voltage: 380 V ~ class 2 according to NF C 20-040/VDE 0110-1/EN 50124-1
- Test Voltage: 2300 V eff.
- Contact Resistance: < 2 mΩ
- Insulation Resistance: > 5000 MΩ

ENVIRONMENTAL

- Operating Temperature Range: -40°C +100°C
- Protection Index with cable-gland: IP66
- Mechanical resistance index: IK07

MECHANICAL

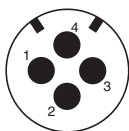
- Plug & Receptacle: Black Polyamide halogen free
- Flammability: I2F1 according to NF F 61-101 & 102 - UL94V0
- Contact: Brass - Stainless steel spring (supplied in chain form)
- Seal: Neoprene
- Cable-gland (optional): polyamide or polycarbonate
- Durability: 400 mating cycles

APPLICATIONS

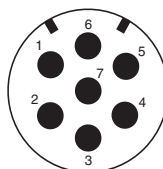
- Engine
- Robotic
- Remote surveillance camera
- Remote control gates
- and others...

ARRANGEMENTS

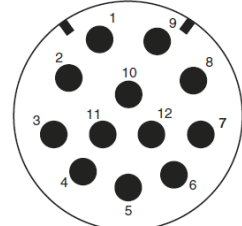
Size 1



Size 2



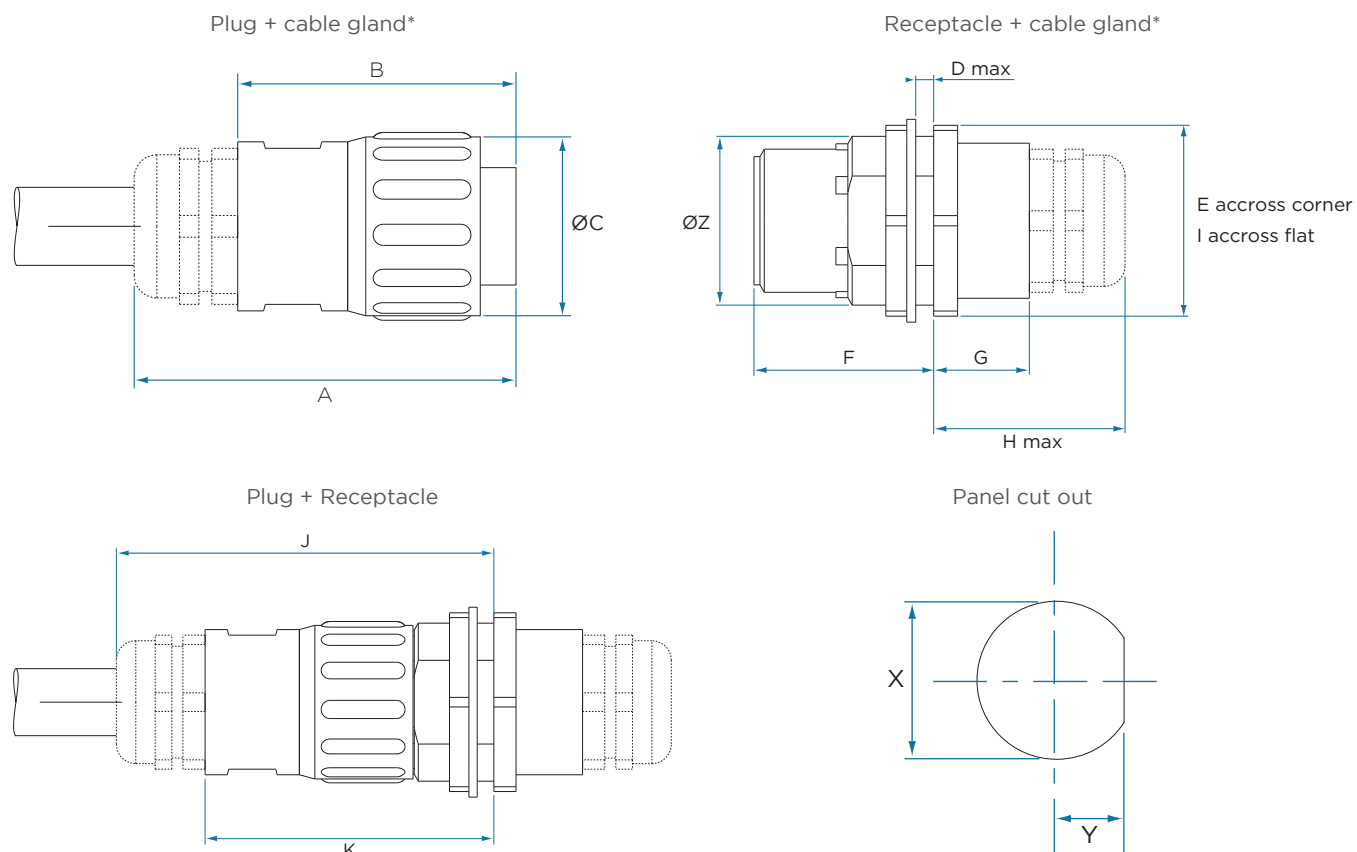
Size 3



Front Plug

Dimensions & Part Numbers

DIMENSIONS



| Size | Number of contacts | Backshell PG | A | B | C | D | E | F | G | H | I | J | K | X (+0,3/ +0,1) | Y (+0,3/ +0,1) | Z PG |
|-----------|--------------------|--------------|----------------|--------------|--------------|-------------|--------------|----------------|----------------|----------------|--------------|----------------|--------------|----------------------|----------------------|---------|
| 1 | 4 | 9 | ± 65 (2.56) | 42 (1.65) | 24 (0.94) | 8 (0.31) | 30 (1.18) | 29,5 (1.16) | 15,5 (0.61) | 38 (1.50) | 27 (1.06) | ± 74 (2.91) | 51 (2.00) | 22,5 (0.88) | 9,5 (0.37) | 16 |
| 2 | 7 | 13 | ± 72 (2.83) | 43 (1.69) | 29 (1.14) | 8 (0.31) | 36 (1.42) | 30 (1.18) | 16 (0.63) | 45 (1.77) | 32 (1.26) | ± 81 (3.19) | 52 (2.04) | 28,5 (1.12) | 12 (0.47) | 21 |
| 3 | 12 | 21 | ± 78 (3.07) | 46 (1.81) | 38 (1.50) | 8 (0.31) | 51 (2.00) | 31,5 (1.24) | 16,5 (0.65) | 48,5 (1.91) | 46 (1.81) | ± 87 (3.42) | 55 (2.16) | 37 (1.46) | 16,5 (0.65) | 29 |
| mm/(inch) | | | | | | | | | | | | | | mm/(inch) | | |

The dimension for A, J and H are only given for information

PG according to NF C 68-311

PART NUMBERS & WEIGHT

| Size 1 4 contacts | | Weight | Size 2 7 contacts | | Weight | Size 3 12 contacts | | Weight |
|----------------------|--------------|--------|----------------------|--------------|--------|-----------------------|--------------|--------|
| Plug | CPE1631F0000 | 10,2 g | Receptacle | CPE1632F0000 | 14,8 g | Plug | CPE1633F0000 | 24,5 g |
| Receptacle | CPE1631E0000 | 13,9 g | Plug | CPE1632E0000 | 20,2 g | Receptacle | CPE1633E0000 | 37,1 g |

Supplied without contact and without accessory
Seal and nut are supplied with receptacle

*sold separately

CONTACTS

| Contacts | | Cross-section Section | Part Numbers |
|---------------------|---|-----------------------------|----------------|
| Stamped & formed | P | 0,65 - 1,64 mm ² | DPE0405-0053AS |
| | S | 0,65 - 1,64 mm ² | DPE0405-0054AS |

P: Pin

S: Socket

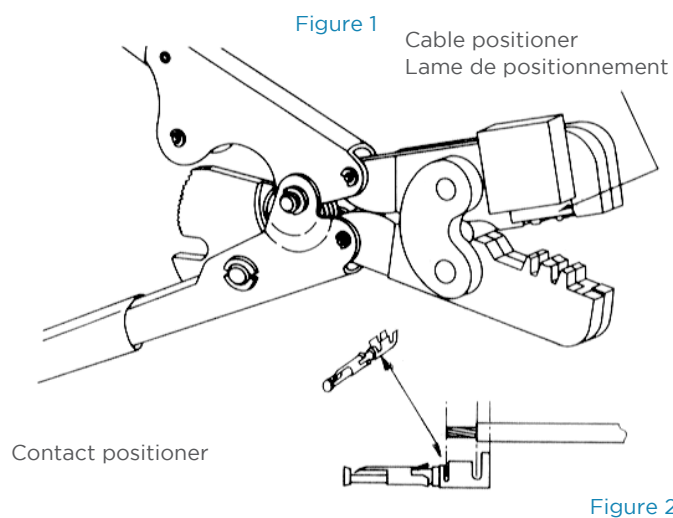
Note:

Other section, contact us

Possibility of machined contacts

CRIMPING PROCEDURE

- Strip the cable of a length of 0.236 inches (6 mm)
- Insert pin or socket contact into crimping tool and place the cable positioner into the contact bucket as shown on figure 1 - The contact bucket will then be correctly placed
- Insert stripped wire into contact as shown on figure 2
- Crimp the contact until the tool dies are closed and the ratchet releases. Check terminal to ensure that all strands are contained



| Tools | Part Numbers |
|--------------------------------|--------------|
| Crimping tool for all contacts | 58495-1 |
| Extraction tool | 305183 |

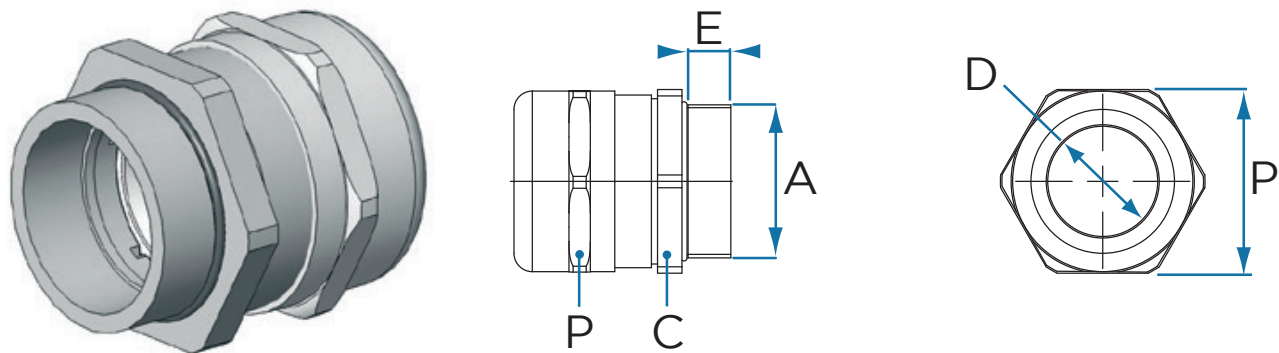
Cable Entry Equipment

Accessories

CABLE GLAND

IP66

Material: Polyamide



| Size | A | E | C | P | Ø D | Part Number |
|------|--------|---------------|---------------|---------------|-----------------------------|----------------|
| 1 | PG9 | 8 (0.314) | 19 (0.748) | 19 (0.748) | 4 - 8 (0.157 to 0.314) | STD0401-0451AS |
| 2 | PG13,5 | 9 (0.354) | 24 (0.944) | 24 (0.944) | 7 - 12 (0.275 to 0.472) | STD0401-0173AS |
| 3 | PG21 | 11 (0.433) | 33 (1.299) | 33 (1.299) | 13 - 18 (0.511 to 0.708) | STD0401-0174AS |

mm/(inch)

The glands threads conform to standard NF C 68-311 or DIN 40430.



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