

## Series K

### Technical Characteristics

#### Mechanical and Climatical

| Characteristics           | Value              | Standard             |
|---------------------------|--------------------|----------------------|
| Endurance                 | > 5000 cycles      | IEC 60512-5 test 9a  |
| Humidity                  | up to 95% at 60° C |                      |
| Temperature range         | - 55° C, +250° C   |                      |
| Resistance to vibration   | 10-2000 Hz, 15 g   | IEC 60512-4 test 6d  |
| Shock resistance          | 100 g, 6 ms        | IEC 60512-4 test 6c  |
| Salt spray corrosion test | > 144h             | IEC 60512-6 test 11f |
| Protection index (mated)  | IP50               | IEC 60529            |
| Climatical category       | 55/175/21          | IEC 60068-1          |

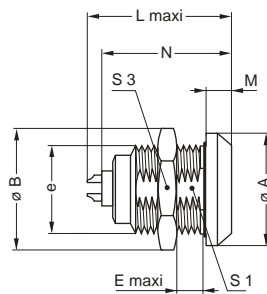
## Metal housing models

#### Electrical

| Characteristics      | Value     | Standard      |
|----------------------|-----------|---------------|
| Shielding efficiency | at 10 MHz | > 75 dB       |
|                      | at 1 GHz  | > 40 dB       |
|                      |           | IEC 60169-1-3 |
|                      |           | IEC 60169-1-3 |

**Note:**

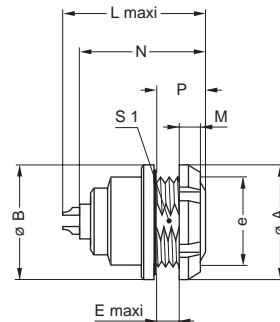
the various tests have been carried out with FGG and EGG connector pairs, with chrome-plated brass shell and PEEK insulator.



#### EGG Fixed socket, nut fixing, key (G) or keys (A to F, L and R)

| Reference |        | Dimensions (mm) |      |         |   |      |     |                 |      |    |
|-----------|--------|-----------------|------|---------|---|------|-----|-----------------|------|----|
| Model     | Series | A               | B    | e       | E | L    | M   | N <sup>1)</sup> | S1   | S3 |
| EGG       | 0K     | 18              | 19.2 | M14x1.0 | 6 | 21.7 | 4.0 | 20.1            | 12.5 | 17 |
| EGG       | 1K     | 20              | 21.5 | M16x1.0 | 9 | 27.0 | 4.5 | 25.1            | 14.5 | 19 |
| EGG       | 2K     | 25              | 27.0 | M20x1.0 | 9 | 30.7 | 5.0 | 28.6            | 18.5 | 24 |

**Note:** <sup>1)</sup> maximum length with crimp contacts.



#### EEG Fixed socket, nut fixing, key (G) or keys (A to F, L and R) (back panel mounting)

| Reference |        | Dimensions (mm) |    |         |     |      |     |                 |      |      |  |
|-----------|--------|-----------------|----|---------|-----|------|-----|-----------------|------|------|--|
| Model     | Series | A               | B  | e       | E   | L    | M   | N <sup>1)</sup> | P    | S1   |  |
| EEG       | 0K     | 18.0            | 18 | M14x1.0 | 3.4 | 21.7 | 3.5 | 20.1            | 7.0  | 12.5 |  |
| EEG       | 1K     | 20.0            | 20 | M16x1.0 | 6.2 | 27.0 | 3.5 | 25.1            | 10.0 | 14.5 |  |
| EEG       | 2K     | 25.0            | 25 | M20x1.0 | 5.0 | 30.7 | 3.5 | 28.6            | 10.0 | 18.5 |  |

**Note:** <sup>1)</sup> maximum length with crimp contacts.

## Order information K

FG G - 2 K - 310 - C L A C 65 Z

1 2 3 4 5 6 7 8 9 10 11

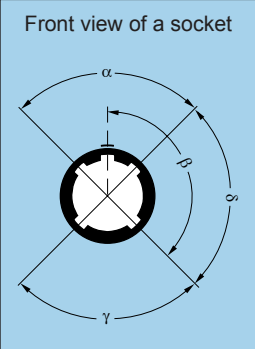
1. Model: F — plug; E — cable receptacle; H — waterproof receptacle;  
P — receptacle; X — receptacle PCB soldering
2. Key
3. Size
4. Series
5. Number of contacts: 306 - 10 contacts
6. Body material: C — chromium-plate brass
7. Insulator material: L — PEEK; Y — PEEK, long insulator, crimp
8. Type of pin: L — socket, solder; A — pin; M — socket, crimp;  
Y — socket, crimp; V — socket, elbow print
9. Collet mechanism: C — collet for K socket
10. Collet diameter: 62 — 6,5 mm
11. Z - shock absorber for cable, option

## Alignment Key

Series K

### Alignment Key and Polarized Keying System

K series connector model part numbers are composed of three letters. The LAST LETTER indicates the key position and the contact type (male or female).

| Front view of a socket<br> | Reference | Nb of keys | Angles | Series |      |      | Contact type |        |
|---|-----------|------------|--------|--------|------|------|--------------|--------|
|   |           |            |        | 0K     | 1K   | 2K   | Plug         | Socket |
|   |           |            |        |        |      |      |              |        |
|   | G         | 1          |        | 0°     | 0°   | 0°   | male         | female |
|   | A         | 2          | α      | 30°    | 30°  | 30°  | male         | female |
|   | B         | 2          |        | 45°    | 45°  | 45°  | male         | female |
|   | C         | 2          |        | 60°    | 60°  | 60°  | male         | female |
|   | D         | 2          | γ      | 95°    | 95°  | 95°  | male         | female |
|   | E         | 2          | β      | 120°   | 120° | 120° | male         | female |
|   | F         | 2          |        | 145°   | 145° | 145° | male         | female |
|   | L         | 2          | γ      | 75°    | 75°  | 75°  | female       | male   |

Note:

- First choice alternative
- Special order alternative