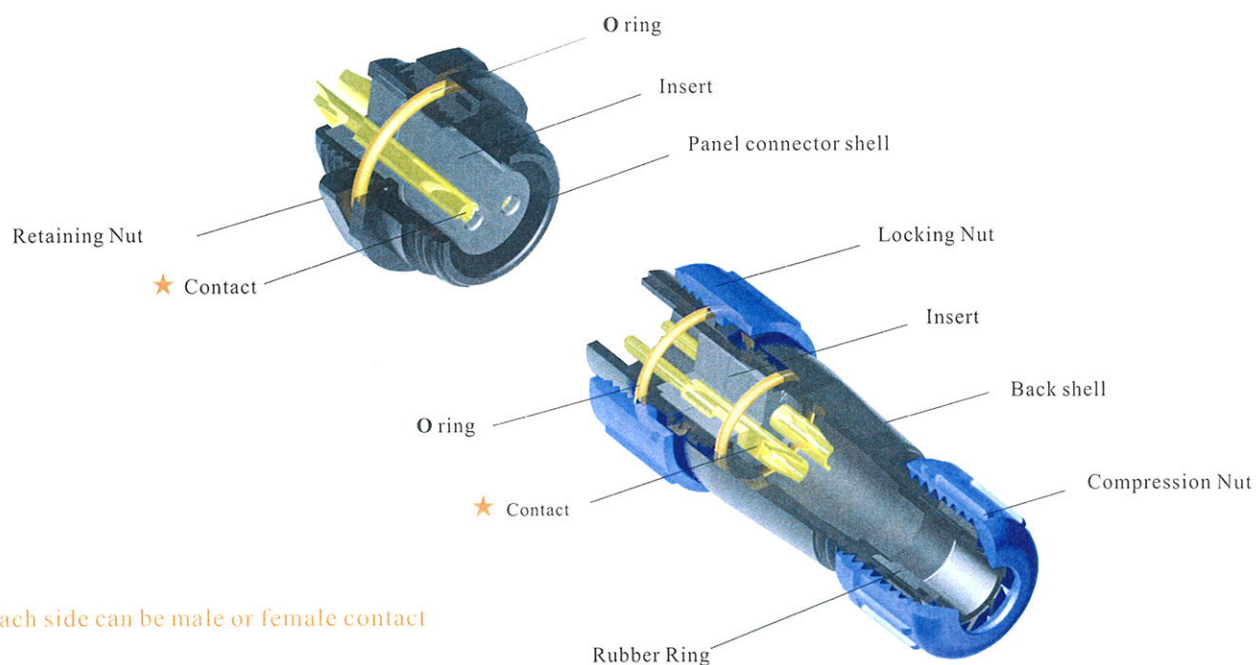


# IP 68



## ● SP13 & SP21 IP68 Threaded coupling



★ Each side can be male or female contact

## Material and spec

|                            |                                 |                           |
|----------------------------|---------------------------------|---------------------------|
| Coupling                   | Threaded coupling               |                           |
| Shell material             | Nylon66 , fire resistance : V-0 |                           |
| Insert material            | PPS max temperature 260 °C      |                           |
| Contact material           | Brass with gold plating         |                           |
| Termination                |                                 | SP21:solder               |
| Cable outer diameter range |                                 | SP21 I: 4.5-7mm II:7-12mm |
| IP rating                  | IP68                            |                           |
| Mating cycle               | >500                            |                           |
| Temperature range          | -25°C ~ +85°C                   |                           |
| Insulation resistance MΩ   | 2000                            |                           |

## SP21 Series IP68

**SP21**

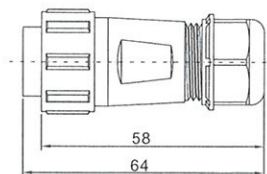
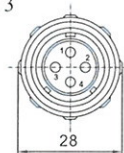


SP2110 / P —

SP2110 / S —

### Cable connector

Mate with SP2111, SP2112, SP2113



Cable outer diameter: I : 4-7mm, II : 7-12mm  
Number of contact: 2. 3. 4. 5. 5B. 7. 9. 12

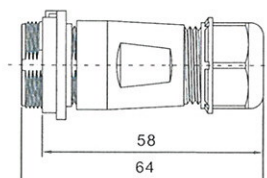
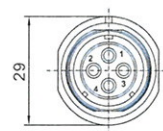


SP2111 / P —

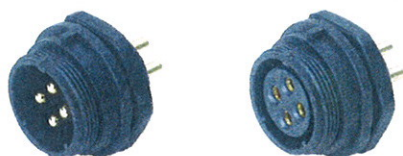
SP2111 / S —

### In-line cable connector

Mate with SP2110



Cable outer diameter: I : 4-7mm, II : 7-12mm  
Number of contact: 2. 3. 4. 5. 5B. 7. 9. 12

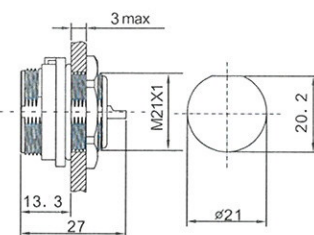
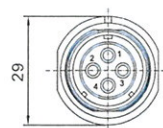


SP2112 / P —

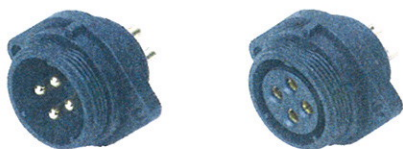
SP2112 / S —

### Front mount

Mate with SP2110



Number of contact: 2. 3. 4. 5. 5B. 6. 7. 9

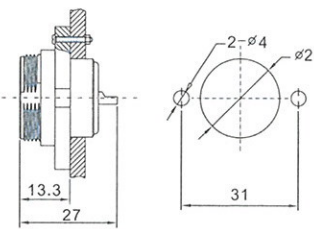
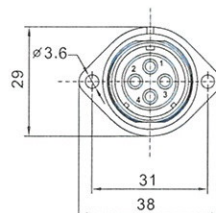


SP2113 / P —

SP2113 / S —

### 2-hole flange

Mate with SP2110



## Contact arrangement and spec

| Number of contact              | 2              | 3              | 4              | 5              | 5B                    | 7      | 9         | 12        |
|--------------------------------|----------------|----------------|----------------|----------------|-----------------------|--------|-----------|-----------|
| Male contact face view         |                |                |                |                |                       |        |           |           |
| Rated current (A)              | 30A            | 30A            | 30A            | 30A            | 5A, 30A               | 15A    | 5A        | 5A        |
| Contact diameter               | Ø3X2           | Ø3X3           | Ø3X4           | Ø3X5           | Ø1X3<br>Ø3X2          | Ø2X7   | Ø1X9      | Ø1X12     |
| Termination                    | solder / screw | solder / screw | solder / screw | solder / screw | solder / screw        | solder | solder    | solder    |
| Rated voltage (AC.V)           | 500V           | 500V           | 500V           | 500V           | 500V                  | 500V   | 500V      | 400V      |
| Test voltage(AC.V) 1 min       | 1500V          | 1500V          | 1500V          | 1500V          | 1500V                 | 1500V  | 1500V     | 1200V     |
| Contact resistance mΩ          | 1              | 1              | 1              | 1              | 5, 1                  | 2.5    | 5         | 5         |
| Wire size mm <sup>2</sup> /AWG | ≤4.17/11       | ≤4.17/11       | ≤4.17/11       | ≤4.17/11       | ≤0.785/18<br>≤4.17/11 | ≤2/14  | ≤0.785/18 | ≤0.785/18 |