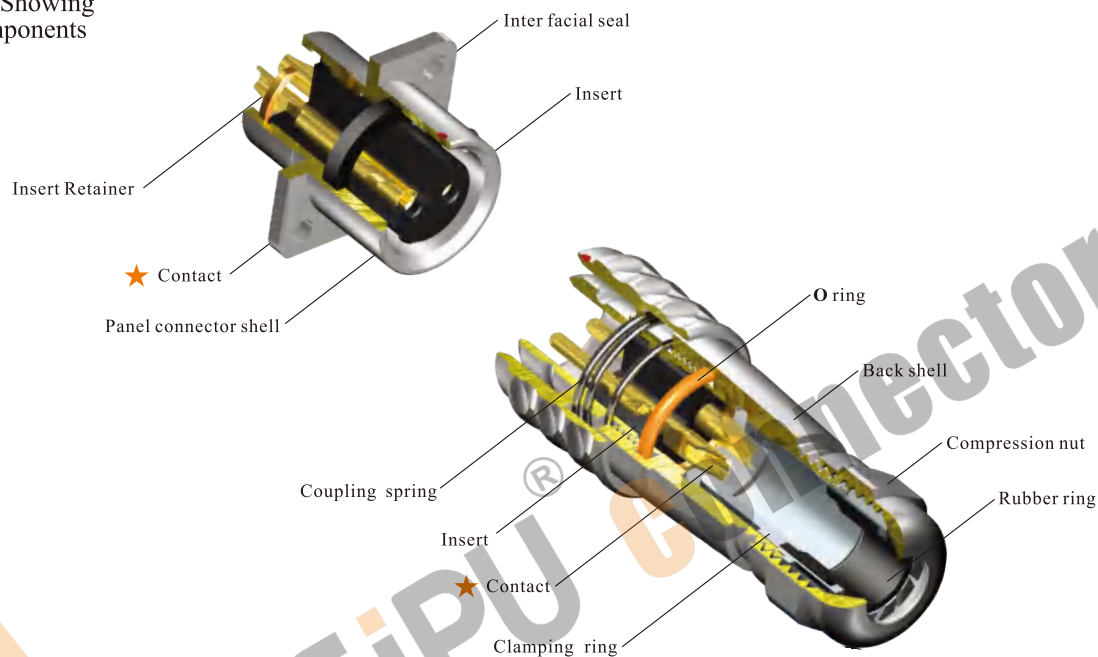


IP67

04

● Part Section Showing Internal Components



★ Each side can be male or female contact

### Material and spec

|                            |                                                                                                                    |                                                                           |
|----------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Coupling                   | Push-pull                                                                                                          |                                                                           |
| Shell material             | Brass with chrome plating                                                                                          |                                                                           |
| Insert material            | PPS , max temperature 260℃    Data: PBT, PVC                                                                       |                                                                           |
| Contact material           | Brass with gold plating                                                                                            |                                                                           |
| Termination                | Solder: SF6, SF8, SF10, SF12, SF16, SF20, SF24<br>Crimp: SF16, SF20, SF24<br>Screw: SF20, SF24(Ø2.5mm contact)     |                                                                           |
| Cable outer diameter range | SF6: I: 2-3mm, II: 3-4mm<br>SF8: I: 3-4mm, II: 4-5mm<br>SF10: I: 3-4mm, II: 4-6.5mm<br>SF12: I: 4-6.5mm, II: 5-8mm | SF16: I: 5-8mm, II: 8-12mm<br>SF20: I: 5-9mm, II: 8-12mm<br>SF24: 10-14mm |
| IP rating                  | IP67 (mated)                                                                                                       |                                                                           |
| Mating cycle               | 500    USB:1000                                                                                                    |                                                                           |
| Working temperature range  | -40℃ ~ +85℃    Data : -20℃ ~ +70℃                                                                                  |                                                                           |
| Insulation resistance      | 2000MΩ                                                                                                             |                                                                           |
| Transmission Speed         | Cat 5: 100Mbps    Cat 6: 100-1000Mbps                                                                              |                                                                           |

## SF12 Series

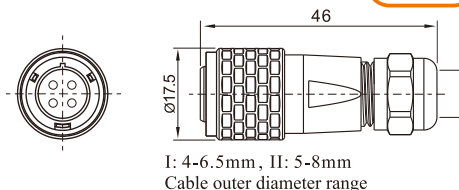
**SF  
12**



**SF1210 / P** — **SF1210 / S** —  
Male contact Female contact

Cable connector  
Mate with SF1211, SF1212, SF1213, SF1215

Cable outer diameter  
I: 4-6.5mm, II: 5-8mm  
Number of contact  
Female contact



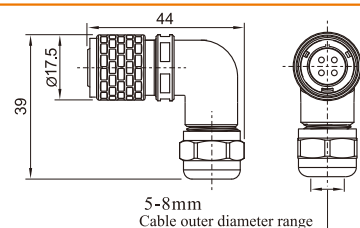
I: 4-6.5mm, II: 5-8mm  
Cable outer diameter range



**SF1214 / P** — II **SF1214 / S** — II

Angled cable connector  
Mate with SF1211, SF1212, SF1213, SF1215

Cable outer diameter  
II: 5-8mm

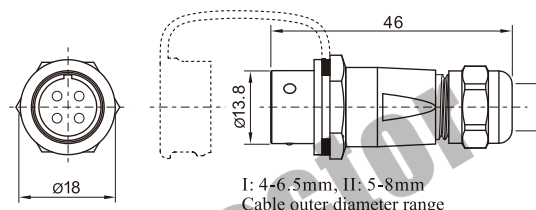


5-8mm  
Cable outer diameter range



**SF1211 / P** — **SF1211 / S** —

In-line cable connector  
Mate with SF1210, SF1214



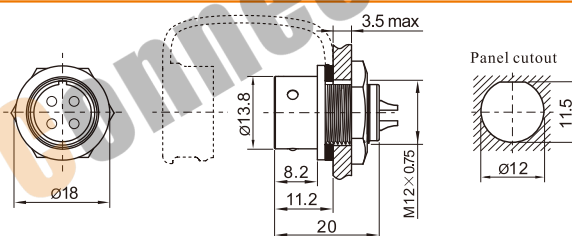
I: 4-6.5mm, II: 5-8mm  
Cable outer diameter range



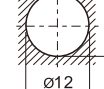
**SF1212 / P** — **SF1212 / S** —

Rear-nut mount  
Mate with SF1210, SF1214

Number of contact

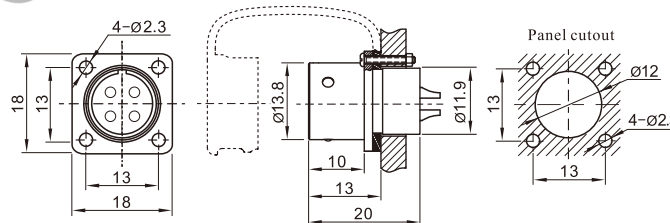


Panel cutout



**SF1213 / P** — **SF1213 / S** —

Square flange  
Mate with SF1210, SF1214

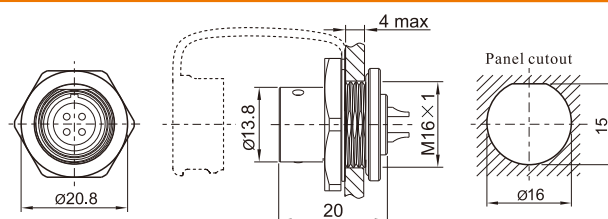


Panel cutout

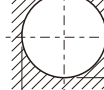


**SF1215 / P** — **SF1215 / S** —

Front-nut mount  
Mate with SF1210, SF1214



Panel cutout



### Solder contact spec

| Number of contact        | 2      | 3      | 4        | 5        | 6        | 7        | 9       |
|--------------------------|--------|--------|----------|----------|----------|----------|---------|
| Male contact face view   |        |        |          |          |          |          |         |
| Rated current (A)        | 13     | 13     | 5        | 5        | 5        | 5        | 3       |
| Contact diameter(mm)     | Ø1.6X2 | Ø1.6X3 | Ø1X4     | Ø1X5     | Ø1X6     | Ø1X7     | Ø0.7X9  |
| Rated voltage (AC.V)     | 250    | 250    | 200      | 180      | 125      | 125      | 125     |
| Test voltage(AC.V) 1 min | 1500   | 1500   | 1500     | 1000     | 1000     | 1000     | 1000    |
| Contact resistance (mΩ)  | 2.5    | 2.5    | 5        | 5        | 5        | 5        | 10      |
| Wire size (mm²/AWG)      | ≤2/14  | ≤2/14  | ≤0.75/18 | ≤0.75/18 | ≤0.75/18 | ≤0.75/18 | ≤0.5/20 |

## SF12 Anti-bending



SF12



SF1210S/P—I

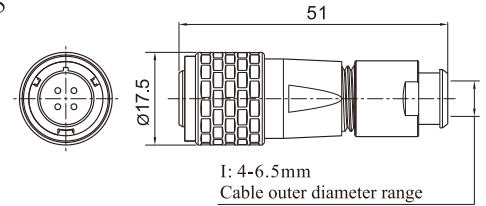
SF1210S/S—I

Male contact

Cable connector  
Mate with SF1211S, SF1212, SF1213, SF1215

Cable outer diameter  
I: 4-6.5mm

Number of contact  
Female contact

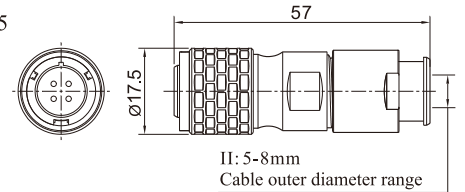


SF1210S/P—II

SF1210S/S—II

Cable connector  
Mate with SF1211S II, SF1212, SF1213, SF1215

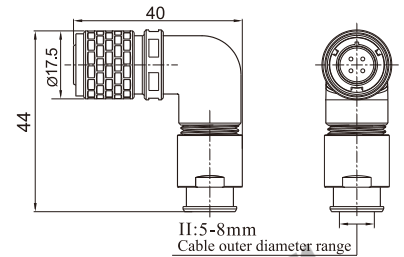
Cable outer diameter  
I: 5-8mm



SF1214S/P—II

SF1214S/S—II

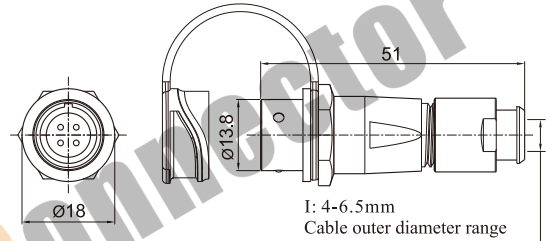
Angled cable connector  
Mate with SF1211S II, SF1212, SF1213, SF1215



SF1211S/P—I

SF1211S/S—I

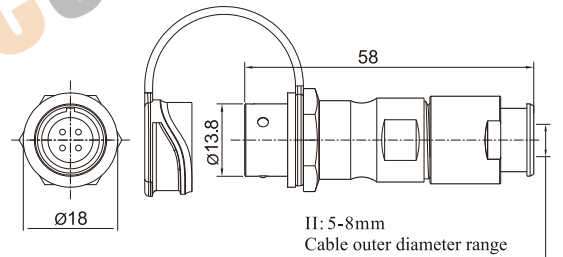
In-line cable connector  
Mate with SF1210S



SF1211S/P—II

SF1211S/S—II

In-line cable connector  
Mate with SF1210S II, SF1214S II



Note: The bend relief must be ordered separately (page 04-20)

## Solder contact spec

| Number of contact               | 2      | 3      | 4        | 5        | 6        | 7        | 9       |
|---------------------------------|--------|--------|----------|----------|----------|----------|---------|
| Male contact face view          |        |        |          |          |          |          |         |
| Rated current (A)               | 13     | 13     | 5        | 5        | 5        | 5        | 3       |
| Contact diameter(mm)            | Ø1.6X2 | Ø1.6X3 | Ø1X4     | Ø1X5     | Ø1X6     | Ø1X7     | Ø0.7X9  |
| Rated voltage (AC.V)            | 250    | 250    | 200      | 180      | 125      | 125      | 125     |
| Test voltage(AC.V) 1 min        | 1500   | 1500   | 1500     | 1000     | 1000     | 1000     | 1000    |
| Contact resistance (mΩ)         | 2.5    | 2.5    | 5        | 5        | 5        | 5        | 10      |
| Wire size(mm <sup>2</sup> /AWG) | ≤2/14  | ≤2/14  | ≤0.75/18 | ≤0.75/18 | ≤0.75/18 | ≤0.75/18 | ≤0.5/20 |

## SF12 Series

**SF  
12**



Cable connector  
Mate with SF1211, SF1212, SF1213

SF1210 / P\_\_

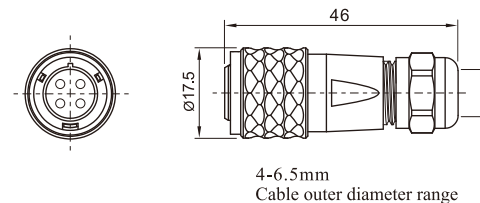
SF1210 / S\_\_

Male contact

(U):

Number of contact

Female contact

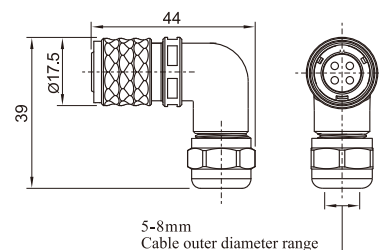


Angled cable connector  
Mate with SF1211, SF1212, SF1213

SF1214 / P\_\_ II\_\_

SF1214 / S\_\_ II\_\_

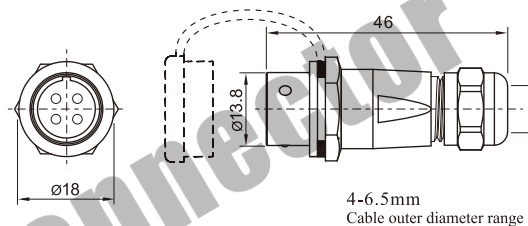
(U):



In-line cable connector  
Mate with SF1210, SF1214

SF1211 / P\_\_

SF1211 / S\_\_



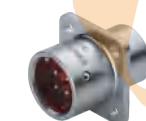
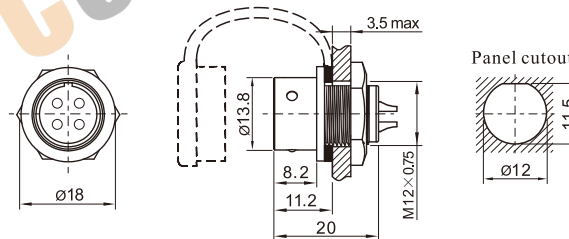
Rear-nut mount  
Mate with SF1210,  
SF1214

SF1212 / P\_\_

SF1212 / S\_\_

(U):

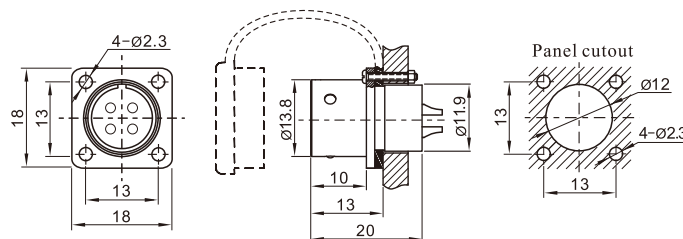
Number of contact



Square flange  
Mate with SF1210,  
SF1214

SF1213 / P\_\_

SF1213 / S\_\_



### Solder contact spec

| Number of contact        | 4    | 5    | 6    | 7    |
|--------------------------|------|------|------|------|
| Male contact face view   |      |      |      |      |
| Rated current (A)        | 5    | 5    | 5    | 5    |
| Contact diameter(mm)     | Ø1X4 | Ø1X5 | Ø1X6 | Ø1X7 |
| Rated voltage (AC.V)     | 300  | 300  | 300  | 300  |
| Test voltage(AC.V) 1 min | 1500 | 1000 | 1000 | 1000 |
| Contact resistance (mΩ)  | 5    | 5    | 5    | 5    |
| Wire size (AWG)          | 18   | 18   | 18   | 18   |