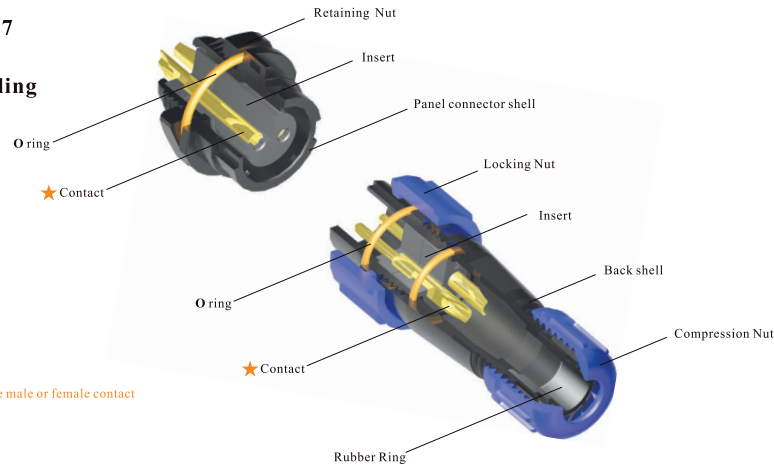


IP67



● SY Series IP67

● Bayonet coupling



★ Each side can be male or female contact

Material and spec

| Coupling | Bayonet |
|----------------------------|--|
| Shell material | PC, Nylon66, fire resistance: V-0 |
| Insert material | PPS, max temperature 260 °C |
| Contact material | Brass with gold plating |
| Termination | Solder: SY11, SY13, SY17, SY21, SY29 Crimp: SY17, SY21, SY29 Screw: SY21, SY29(∅2.5, ∅3, ∅3.5mm contact) |
| Cable outer diameter range | SY11: 4-6.5mm SY21: I: 4.5-7mm, II: 7-12mm SY13 I: 4-6.5mm, II: 5-8mm SY29: 13-16mm SY17: 6-10mm |
| IP rating | IP67 |
| Mating cycle | 500 |
| Temperature range | -40°C ~ +85°C |
| Insulation resistance | 2000 MΩ |

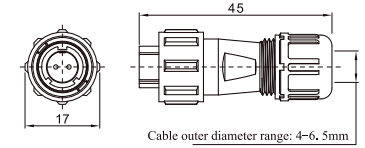
SY11 Series



SY1110 / P _ - N SY1110 / S _ - N

Male contact Number of contact
Female contact

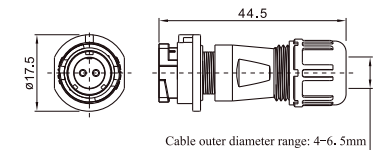
Cable connector
Mate with SY1111, SY1112



SY1111 / P _ - _ SY1111 / S _ - _

C: with cap
N: without cap
Number of contact

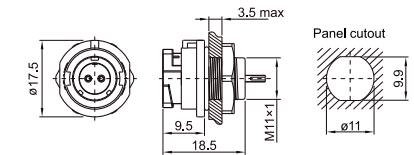
In-line cable connector
Mate with SY1110



SY1112 / P _ - _ SY1112 / S _ - _

C: with cap
N: without cap
Number of contact

Rear-nut mount
Mate with SY1110



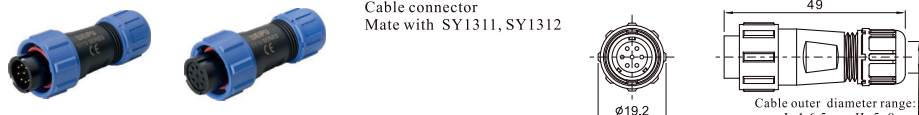
Solder contact spec

| Number of contact | 2 | 3 | 4 | 5 |
|--------------------------|----------|----------|---------|---------|
| Male contact face view | | | | |
| Rated current (A) | 5 | 5 | 3 | 3 |
| Contact diameter(mm) | ∅1×2 | ∅1×3 | ∅0.7×4 | ∅0.7×5 |
| Rated voltage (AC.V) | 180 | 180 | 125 | 125 |
| Test voltage(AC.V) 1 min | 1000 | 1000 | 1000 | 1000 |
| Contact resistance(mΩ) | 5 | 5 | 10 | 10 |
| Wire size(mm²/AWG) | ≤0.75/18 | ≤0.75/18 | ≤0.5/20 | ≤0.5/20 |

SY 13

SY13 Series

Cable connector
Mate with SY1311, SY1312



SY1310 / P- - -N SY1310 / S- - -N

Male contact

Female contact

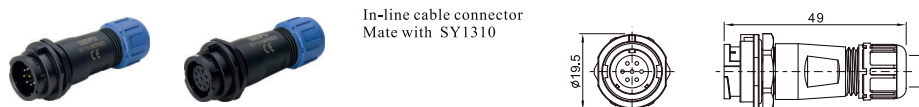
Cable outer diameter
I: 4-6.5mm, II: 5-8mm

Number of contact

Dimensions: $\phi 19.2$, 49

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

In-line cable connector
Mate with SY1310



SY1311 / P- - - SY1311 / S- - -

Number of contact

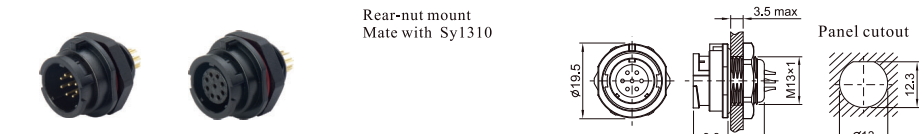
C: with cap
N: without cap

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

Dimensions: $\phi 19.5$, 49

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

Rear-nut mount
Mate with SY1310



SY1312 / P- - - SY1312 / S- - -

C: with cap
N: without cap

Number of contact

Dimensions: $\phi 19.5$, 3.5 max, 9.3, 18.8, M13x1, 12.3, $\phi 13$

Panel cutout

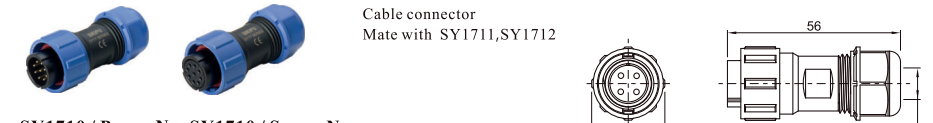
Solder contact spec

| 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) | $\phi 1.6 \times 2$ | $\phi 1.6 \times 3$ | $\phi 1 \times 4$ | $\phi 1 \times 5$ | $\phi 1 \times 6$ | $\phi 1 \times 7$ | $\phi 0.7 \times 9$ |
| 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 (m Ω) | 2.5 | 2.5 | 5 | 5 | 5 | 5 | 10 |
| Wire size (mm ² / AWG) | $\leq 2/14$ | $\leq 2/14$ | $\leq 0.75/18$ | $\leq 0.75/18$ | $\leq 0.75/18$ | $\leq 0.75/18$ | $\leq 0.5/20$ |

SY 17

SY17 Series

Cable connector
Mate with SY1711, SY1712



SY1710 / P- - -N SY1710 / S- - -N

Male contact

Female contact

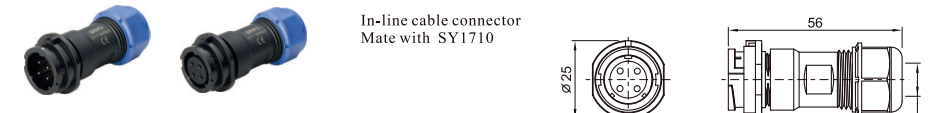
1: solder, 3: crimp

Number of contact

Dimensions: $\phi 24$, 56

Cable outer diameter range: 6-10mm

In-line cable connector
Mate with SY1710



SY1711 / P- - - SY1711 / S- - -

C: with cap
N: without cap

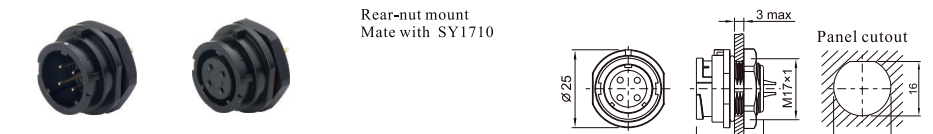
1: solder, 3: crimp

Number of contact

Dimensions: $\phi 25$, 56

Cable outer diameter range: 6-10mm

Rear-nut mount
Mate with SY1710



SY1712 / P- - - SY1712 / S- - -

C: with cap
N: without cap

1: solder, 3: crimp

Number of contact

Dimensions: $\phi 25$, 3 max, 10.7, 20, M17x1, 16, $\phi 17$

Panel cutout

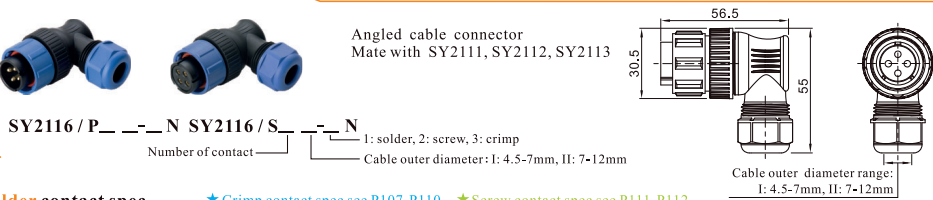
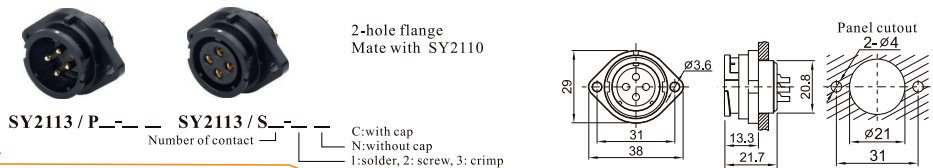
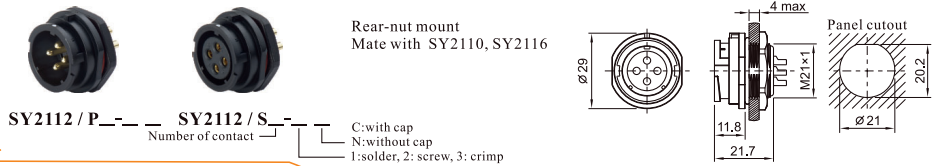
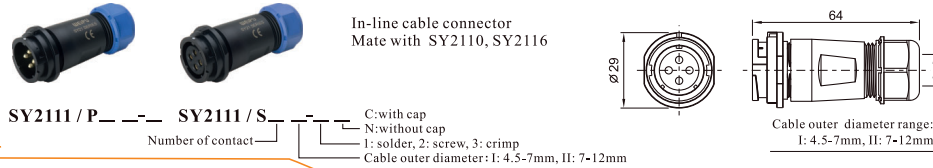
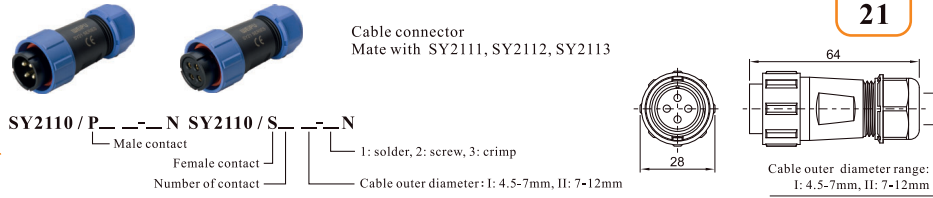
Solder contact spec

★ Crimp contact spec see P107-P110

| Number of contact | 2 | 3 | 4 | 2B | 3B | 4B | 5 | 7 | 9 | 10 |
|-----------------------------------|---------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Male contact face view | | | | | | | | | | |
| Rated current (A) | 10 | 10 | 5 | 15 | 15 | 15 | 5 | 5 | 5 | 5 |
| Contact diameter(mm) | $\phi 1.5 \times 2$ | $\phi 1.5 \times 3$ | $\phi 1 \times 4$ | $\phi 2 \times 2$ | $\phi 2 \times 3$ | $\phi 2 \times 4$ | $\phi 1 \times 5$ | $\phi 1 \times 7$ | $\phi 1 \times 9$ | $\phi 1 \times 10$ |
| Rated voltage (AC.V) | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 400 | 400 | 400 |
| Test voltage(AC.V) 1 min | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1200 | 1200 | 1200 |
| Contact resistance (m Ω) | 2.5 | 2.5 | 5 | 2.5 | 2.5 | 2.5 | 5 | 5 | 5 | 5 |
| Wire size (mm ² / AWG) | $\leq 2/14$ | $\leq 2/14$ | $\leq 0.75/18$ | $\leq 2/14$ | $\leq 2/14$ | $\leq 2/14$ | $\leq 0.75/18$ | $\leq 0.75/18$ | $\leq 0.75/18$ | $\leq 0.75/18$ |

SY21 Series

**SY
21**



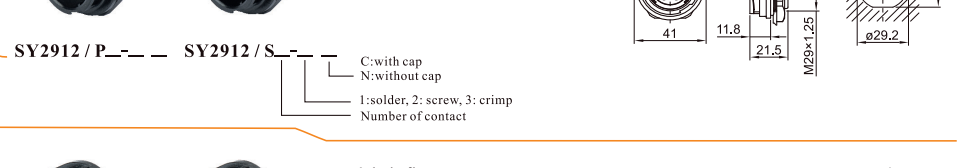
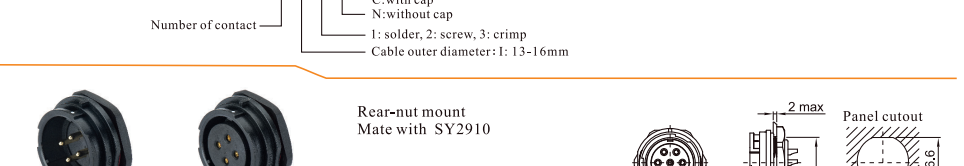
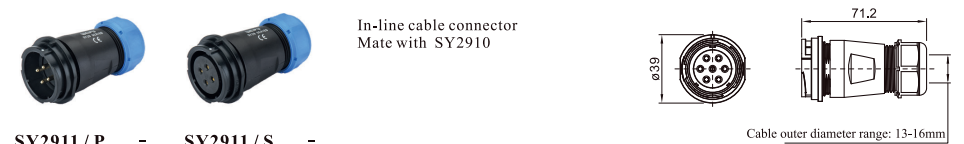
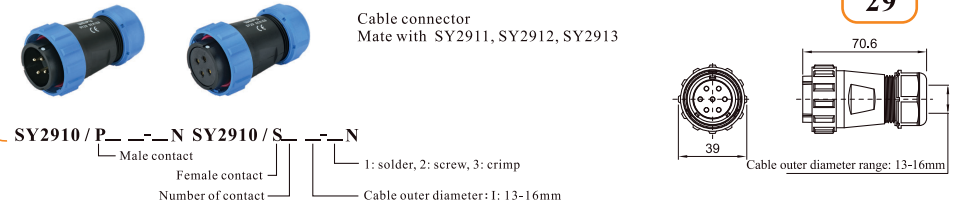
Solder contact spec

★ Crimp contact spec see P107-P110 ★ Screw contact spec see P111-P112

| Number of contact | 2 | 3 | 4 | 5 | 5B | 5C | 6 | 6B | 7 | 8 | 9 | 12 | 15 |
|---|----------------|----------------|----------------|----------------|-------------------|--------|-------------------|--------------|--------|---------|----------|----------|----------|
| Male contact face view | | | | | | | | | | | | | |
| Rated current (A) | 30 | 30 | 30 | 30 | 30 | 15 | 25 | 30 | 15 | 10 | 5 | 5 | 5 |
| Contact diameter (mm) | ø3X2 | ø3X3 | ø3X4 | ø3X5 | ø3X2 ø1X3 | ø2X5 | ø2.5X4 ø1X2 | ø3X2 ø1X4 | ø2X7 | ø1.5X10 | ø1X9 | ø1X12 | ø1X15 |
| Rated voltage (AC.V) | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 400 | 400 | 400 |
| Test voltage(AC.V) 1 min | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1200 | 1200 |
| Contact resistance (mΩ) | 1 | 1 | 1 | 1 | 1 | 2.5 | 1 | 1 | 2.5 | 2.5 | 5 | 5 | 5 |
| Termination | solder / screw | solder / screw | solder / screw | solder / screw | solder | solder | solder | solder | solder | solder | solder | solder | solder |
| Wire size for solder (mm ² / AWG) | ≤4/11 | ≤4/11 | ≤4/11 | ≤4/11 | ≤4/11 ≤0.75/18 | ≤2/14 | ≤4/11 ≤0.75/18 | ≤0.75/18 | ≤2/14 | ≤2/14 | <0.75/18 | <0.75/18 | <0.75/18 |
| Wire size for screw termination (mm ² / AWG) | ≤1.5/15 | ≤1.5/15 | ≤1.5/15 | ≤1.5/15 | / | / | / | / | / | / | / | / | / |

SY29 Series

**SY
29**



Solder contact spec

★ Crimp contact spec see P107-P110 ★ Screw contact spec see P111-P112

| Number of Contact | 2 | 3 | 4 | 7 | 8 | 8B | 9 | 10 | 10B | 12 | 16 | 17 | 20 | 24 | 26 | 35 |
|-----------------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Male contact face view | | | | | | | | | | | | | | | | |
| Rated current (A) | 50 | 50 | 25 | 25 | 25 | 60.5 | 25.5 | 25 | 10 | 10 | 10 | 10 | 5 | 5 | 5 | 5 |
| Contact diameter(mm) | ø3.5X2 | ø3.5X3 | ø2.5X4 | ø2.5X7 | ø2.5X8 | ø5X2 ø1X6 | ø2.5X4 ø1X5 | ø2.5X10 | ø1.5X10 | ø1.5X12 | ø1.5X16 | ø1.5X17 | ø1X20 | ø1X24 | ø1X26 | ø1X35 |
| Rated voltage (AC.V) | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 400 | 400 | 400 | 400 |
| Test voltage(AC.V) 1 min | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1200 | 1200 | 1200 | 1200 |
| Contact resistance (mΩ) | 0.5 | 0.5 | 1 | 1 | 1 | 5.0 | 0.5 | 1.5 | 1 | 2.5 | 2.5 | 2.5 | 2.5 | 5 | 5 | 5 |
| Termination | solder / screw | solder / screw | solder / screw | solder / screw | solder / screw | solder / screw | solder / screw | solder / screw | solder / screw | solder / screw | solder / screw | solder / screw | solder / screw | solder / screw | solder / screw | solder / screw |
| Wire size (mm ² / AWG) | ≤10/7 | ≤10/7 | ≤4/11 | ≤4/11 | ≤4/11 | ≤16/5 ≤0.75/18 | ≤4/11 | ≤16/5 ≤0.75/18 | ≤4/11 | ≤2/14 | ≤2/14 | ≤2/14 | ≤2/14 | ≤2/14 | ≤0.75/18 | ≤0.75/18 |
| Wire size for screw termination | ≤6/10 | ≤6/10 | ≤1.5/15 | ≤1.5/15 | ≤1.5/15 | / | / | ≤1.5/15 | / | / | / | / | / | / | / | / |