## SP21 Series IP68

Cable connector
Mate with SP2111, SP2112, SP2113

SP2110 / P_ _-_ _   SP2110 / S_ -
Number of contact
C: with cap
N: without cap
1: solder, 2: screw, 3: crimp
Cable outer diameter: I: 4.5-7mm, II: 7-12mm

Ø29

65
Cable outer diameter range:
I: 4.5-7mm,   II: 7-12mm
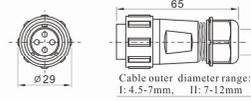
In-line cable connector
Mate with SP2110

SP2111 / P_ _-_ _   SP2111 / S_ _-_ _
C: with cap
N: without cap

Ø29

65
Cable outer diameter range:
I: 4.5-7mm,   II: 7-12mm
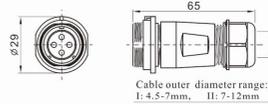
Rear-nut mount
Mate with SP2110

SP2112 / P_-_ _   SP2112 / S_-_ _
Number of contact
C: with cap
N: without cap
1: solder, 2:screw, 3:crimp

Ø29

3 max
M21X1
Panel cutout
20.2
Ø21
11.8
21.5
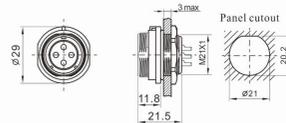
2-hole flange
Mate with SP2110

SP2113 / P_-_ _   SP2113 / S_-_ _

29
Ø3.6
31
38
Panel cutout
2-Ø4
Ø21
31
13.3
21.5
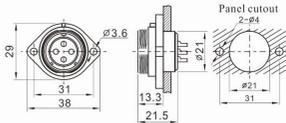
Angled cable connector
Mate with SP2111, SP2112, SP2113

SP2116 / P_ _-_ _   SP2116 / S_ _-_ _
Number of contact
C: with cap
N: without cap
1: solder, 2: screw, 3: crimp
Cable outer diameter:
I: 4.5-7mm, II: 7-12mm

57
29
51
Cable outer diameter range: I: 4.5-7mm, II: 7-12mm

Solder contact spec

★ Crimp contact spec see page 89-92
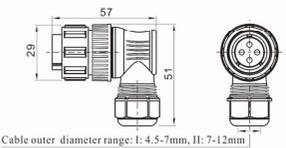
Number of contact	2	3	4	5	5B	5C	7	9	12
Male contact face view									
Rated current (A)	30	30	30	30	30 5	15	15	5	5
Contact diameter(mm)	3	3	3	3	Ø3X2 Ø1X3	2	2	1	1
Rated voltage (AC.V)	500	500	500	500	500	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1200
Contact resistance (mΩ)	1	1	1	1	1 5	2.5	2.5	5	5
Termination	Solder Screw	Solder Screw	Solder Screw	Solder Screw	Solder	Solder	Solder	Solder	Solder
Wire size for solder (mm²/AWG)	≤4/11	≤4/11	≤4/11	≤4/11	≤4/11 ≤0.75/18	≤2/14	≤2/14	≤0.75/18	≤0.75/18
Wire size for screw termination (mm²/AWG)	≤1.5/15	≤1.5/15	≤1.5/15	≤1.5/15	/	/	/	/	/

SP29 Series IP68

Cable connector
Mate with SP2911,SP2912,SP2913

SP2910 / P_-_ _ N   SP2910 / S_-_ _ N
1: solder, 2: screw, 3: crimp
Number of contact

69
38.8
Cable outer diameter range: 13-16mm
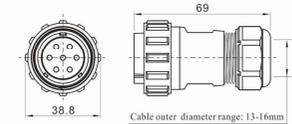
In-line cable connector
Mate with SP2910

SP2911 / P_ _-_ _   SP2911 / S_-_ _
Number of contact
C: with cap
N: without cap
1: solder, 2: screw,3: crimp

Ø38.8

69
Cable outer diameter range: 13-16mm
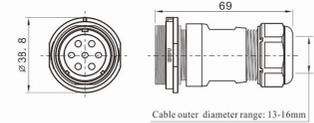
Rear-nut mount
Mate with SP2910

SP2912 / P_-_ _   SP2912 / S_-_ _

Ø38.8

2 max
M29X1.25
Panel cutout
26.6
Ø29.2
11.7
21.5
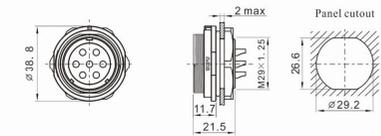
2-hole flange
Mate with SP2910

SP2913 / P_-_ _   SP2913 / S_-_ _

39
45
55
Panel cutout
2-Ø5
2-Ø4.5
Ø27.8
Ø28
13.3
21.7
45

Solder contact spec

★ Crimp contact spec see page 89-92
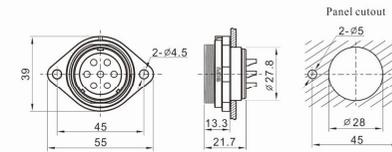
| Number of contact	2	3	4	7	8	9	10	10B	12	16	17	20	24	26
Male contact face view														
Rated current (A)	50	50	25	25	25	25 5	25	10	10	10	10	5	5	5
Contact diameter(mm)	3.5	3.5	2.5	2.5	2.5	Ø2.5X4 Ø1X5	2.5	1.5	1.5	1.5	1.5	1	1	1
Rated voltage (AC.V)	500	500	500	500	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	0.5	0.5	1	1	1	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	Solder Screw	Solder	Solder	Solder	Solder	Solder	Solder	Solder
Wire size for solder (mm²/AWG)	≤10/7	≤10/7	≤4/11	≤4/11	≤4/11	≤4/11 ≤0.75/18	≤4/11	≤2/14	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination (mm²/AWG)	≤6/10	≤6/10	≤1.5/15	≤1.5/15	≤1.5/15	≤1.5/15	/	/	/	/	/	/	/	/

WEiPU®

IP68

- **SP Series IP68**
- **Threaded coupling**

Retaining nut
Insert
Panel connector shell
O ring
★ Contact

Locking nut
Insert
Back shell
Insert housing shell
O ring
Compression nut
★ Contact
Rubber ring

★ Each side can be male or female contact
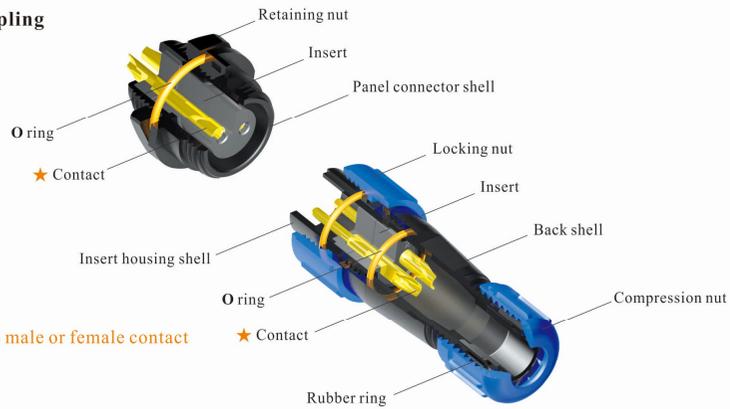
Material and spec

Coupling	Threaded
Shell material	PC: Panel connector shell, Insert housing shell Nylon66: Locking nut, Back shell, Compressing nut, Retaining nut Fire resistance: V-0
Insert material	PPS, max temperature 260 ℃
Contact material	Brass with gold plating
Termination	Solder: SP11, SP13, SP17, SP21, SP29 Crimp: SP17, SP21, SP29 Screw: SP21, SP29 (∅2.5, ∅3, ∅3.5mm contact)
IP rating	IP68
Mating cycle	500
Temperature range	-40℃～+85℃
Insulation resistance（MΩ）	2000