

## Description:

Coupling	Threaded
Shell material	PC, Nylon66, fire resistance: V-0
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: SP13, SP17, SP21, SP29 Crimp: SP17,SP21,SP29 Screw: SP21, SP29 (02.5,03,03.5mm contact)
Cable outer diameter range	SP11:4-6.5 SP13 I: 4-6.5mm,II : 5-8mm SP17: 6-10mm SP21: I: 4.5-7mm,II: 7-12mm SP29: 13-16mm
IP rating	IP68
Mating cycle	500
Temperature range	-40°C ~+ 85°C
Insulation resistance	2000 MG

**SP11 IP68 Series configuration table(list)**

01、Cable connector (>SP1110/P_ >SP1110/S_)	a、Male contact
02、In-line cable connector (>SP1111/P_ >SP1111/S_)	b、Number of contact
03、Rear-nut mount (>SP1112/P_ >SP1112/S_)	c、Female contact



SP13 IP68 Series configuration table(list)	
01、 Cable connector (>SP1310/P___ >SP1310/S___)	a、 Male contact
02、 In-line cable connector (>SP1311/P___ >SP1311/S___)	b、 Cable outer diameter: I: 4-6.5mm(default, no mark), II: 5-8mm
03、 Rear-nut mount (>SP1312/P__ >SP1312/S__)	c、 Number of contact
	d、 Fmale contact

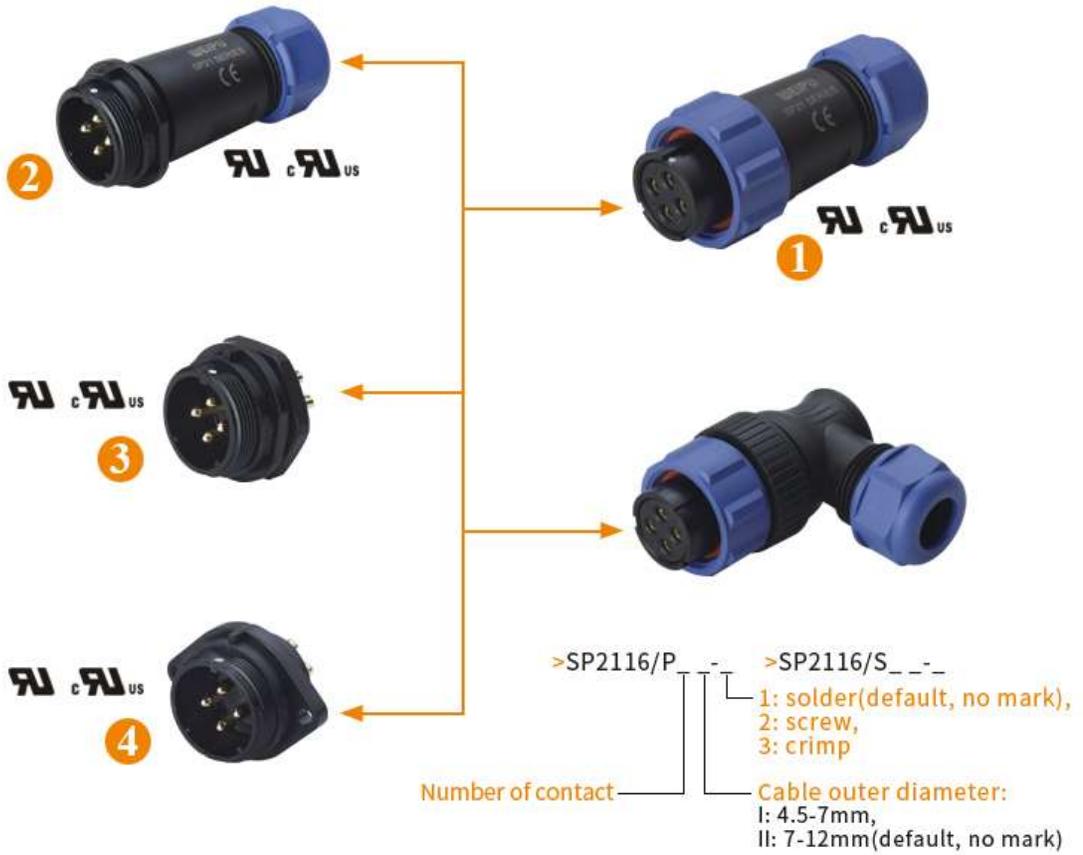
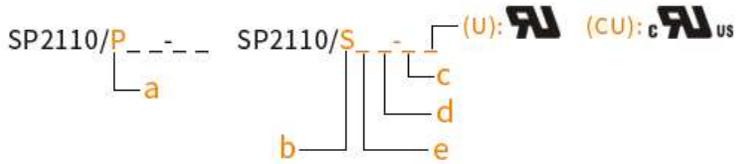


SP17 IP68 Series configuration table(list)	
01、 Cable connector (>SP1710/P_-_ >SP1710/S_-_)	a、 Male contact
02、 In-line cable connector (>SP1711/P_-_ >SP1711/S_-_)	b、 Fmale contact
03、 Rear-nut mount (>SP1712/P_-_ >SP1712/S_-_)	c、 1: solder(default, no mark), 3: crimp
	d、 Number of contact



### SP21 IP68 Series configuration table(list)

01、Cable connector (>SP2110/P_ _ _ >SP2110/S_ _ _)	a、Male contact
02、Angled cable connector (>SP2116/P_ _ _ >SP2116/S_ _ _)	b、Female contact
03、In-line cable connector (>SP2111/P_ _ _ >SP2111/S_ _ _)	c、 1: solder(default, no mark), 2: screw, 3: crimp
04、Rear-nut mount (>SP2112/P_ _ _ >SP2112/S_ _ _)	d、Cable outer diameter: I: 4.5-7mm, II: 7-12mm(default, no mark)
05、2-hole flange (>SP2113/P_ _ _ >SP2113/S_ _ _)	e、Number of contact

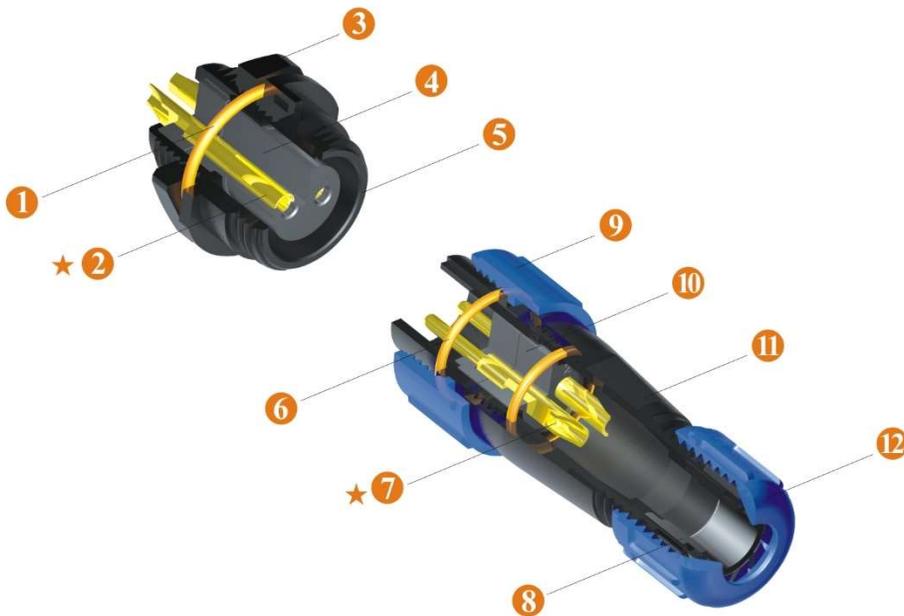




## Specification:

01、O ring	★07、Contact
★02、Contact	08、Rubber ring
03、Retaining nut	09、Locking nut
04、Insert	10、Insert
05、Panel connector shell	11、Back shell
06、O ring	12、Compression nut

★Each side can be male or female contact



## sp11 Solder contact spec

### 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 (mm <sup>2</sup> / AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20

## sp13 Solder contact spec

### 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)	∅1.6X2	∅1.6X3	∅1X4	∅1X5	∅1X6	∅1X7	∅0.7X9
Rated voltage (AC.V)	250	250	200 300	180 300	125 300	125 300	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 ≤0.5/20	≤0.75/18 ≤0.5/20	≤0.75/18 ≤0.5/20	≤0.75/18 ≤0.5/20	≤0.5/20

## sp17 Solder contact spec

### Solder contact spec

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)	∅1.5X2	∅1.5X3	∅1X4	∅2X2	∅2X3	∅2X4	∅1X5	∅1X7	∅1X9	∅1X10
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 (mΩ)	2.5	2.5	5	2.5	2.5	2.5	5	5	5	5
Wire size (mm <sup>2</sup> / AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

## sp21 Solder contact spec

### Solder contact spec

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)	∅1.5X2	∅1.5X3	∅1X4	∅2X2	∅2X3	∅2X4	∅1X5	∅1X7	∅1X9	∅1X10
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 (mΩ)	2.5	2.5	5	2.5	2.5	2.5	5	5	5	5
Wire size (mm <sup>2</sup> / AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

## sp29 Solder contact spec

### Solder contact spec

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)	φ3.5X2	φ3.5X3	φ2.5X4	φ2.5X7	φ2.5X8	φ5X2 φ1X6	φ2.5X4 φ1X5	φ2.5X10	φ1.5X10	φ1.5X12	φ1.5X16	φ1.5X17	φ1X20	φ1X24	φ1X26	φ1X35
Rated voltage (AC.V)	500	500	500	500	500	500 400	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, 0.5	1, 5	1	2.5	2.5	2.5	2.5	5	5	5	5
Termination	solder/screw	solder/screw	solder/screw	solder/screw	solder/screw	solder	solder	solder/screw	solder	solder	solder	solder	solder	solder	solder	solder
Wire size (mm <sup>2</sup> /AWG)	≤10/7	≤10/7	≤4/11	≤4/11	≤4/11	≤16/5 ≤0.75/18	≤4/11 ≤0.75/18	≤4/11	≤2/14	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤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	/	/	/	/	/	/	/	/

Note :