

**IP 68**


05

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


**Material and spec**

Coupling	Threaded	
Shell material	PC, Nylon66, fire resistance: V-0	
Insert material	PPS, max temperature 260 °C; Insert material: PA66(New Screw)	
Contact material	Brass with gold plating	
Termination	Solder: SP11, SP13, SP17, SP21, SP25, SP29, Crimp: SP17, SP21, SP25, SP29 Screw: SP17, SP21, SP25, SP29(Ø2.0, Ø2.5, Ø3, Ø3.5mm contact)	
Cable outer diameter range	SP11: I: 3-4mm, II: 4-6.5mm SP17: 6-10mm SP25: I:10-14mm , II: 7-12mm	SP13: I: 4-6.5mm , II: 5-8mm SP21: I: 4.5-7mm, II: 7-12mm , III: 5-9mm SP29: I: 9-13mm, II: 13-16mm
IP rating	IP68	
Mating cycle	500	
Temperature range	-40°C~+85°C	
Insulation resistance	2000 MΩ	

## SP13 Series

**SP  
13**

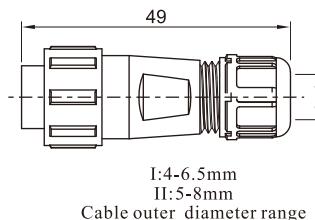
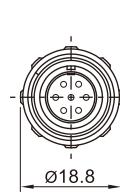


Cable connector  
Mate with SP1311,  
SP1311C, SP1312

**SP1310 / P** \_\_\_  
Male contact

**SP1310 / S** \_\_\_  
Female contact

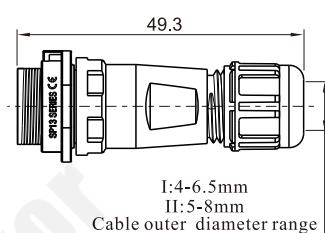
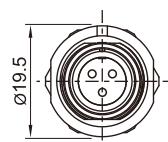
Cable outer diameter range  
I: 4-6.5mm, II: 5-8mm  
Number of contact  
Female contact



In-line cable connector C  
Mate with SP1310

**SP1311C / P** \_\_\_

**SP1311 C / S** \_\_\_

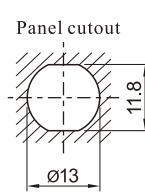
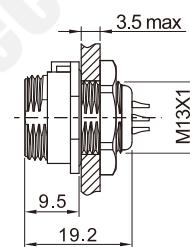
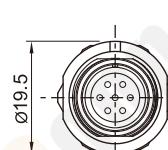


Rear-nut mount  
Mate with SP1310

**SP1312 / P** \_\_\_

**SP1312 / S** \_\_\_

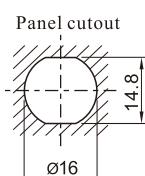
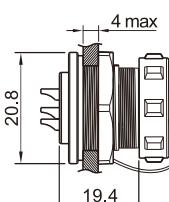
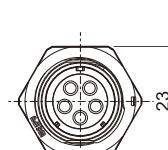
芯数 Number of contact



Front-nut mount  
Mate with SP1310

**SP1315 / P** \_\_\_

**SP1315 / S** \_\_\_



### 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

**SP  
13**

## SP13 Series

cULus

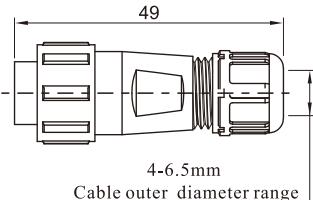
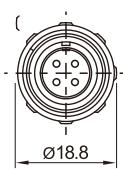
cULus



Cable connector  
Mate with SP1311, SP1312

SP1310 / P — —  
Male contact

SP1310 / S — —  
(CU): cULus  
Number of contact  
Female contact



05

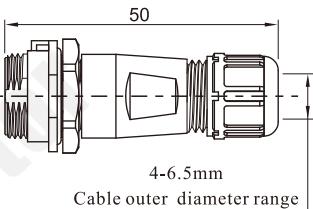
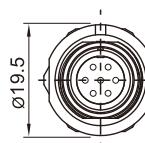
cULus

cULus



In-line cable connector  
Mate with SP1310

SP1311 / P — —  
SP1311 / S — —



cULus

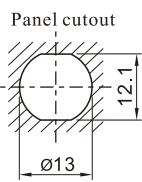
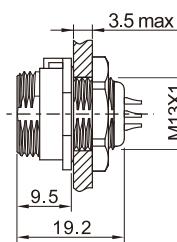
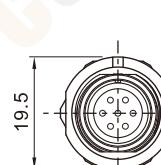
cULus



Rear-nut mount  
Mate with SP1310

SP1312 / P — —

SP1312 / S — —  
(CU): cULus  
Number of contact



## Solder contact spec

Number of contact	4	5	6	7	9
Male contact face view					
Rated current (A)	5	5	5	5	3
Contact diameter (mm)	Ø1X4	Ø1X5	Ø1X6	Ø1X7	Ø0.7X9
Rated voltage (AC.V)	300	300	300	300	125
Test voltage(AC.V) 1 min	1500	1000	1000	1000	1000
Contact resistance (mΩ)	5	5	5	5	10
Wire size(AWG)	20	20	20	20	20