



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



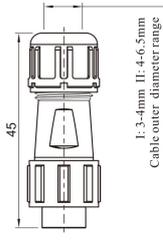
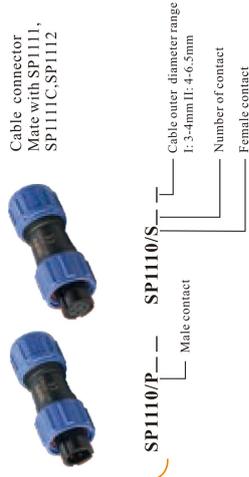
★ Each side can be male or female contact

Material and spec

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: SP11, SP13, SP17, SP21, SP29 Crimp: SP17, SP21, SP29 Screw: SP21, SP29 (ø2.5, ø3, ø3.5mm contact)
Cable outer diameter range	SP11: I: 3-4mm, II: 4-6.5mm SP13 I: 4-6.5mm, II: 5-8mm SP17: 6-10mm 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

SP11 Series

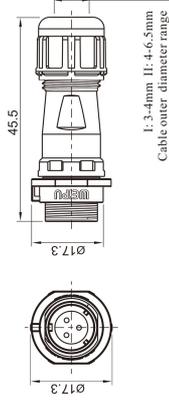
SP 11



In-line cable connector-C
Mate with SP1110



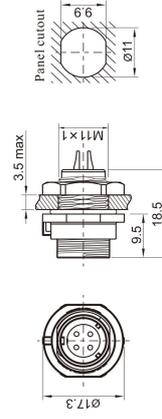
SP1111C/P --- SP1111C/S ---



Rear-nut mount
Mate with SP1110



SP1112/P --- SP1112/S ---



Solder contact spec

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter(mm)	Ø1×2	Ø1×3	Ø0.7×4	Ø0.7×5
Rated voltage (AC.V)	180	180	125	125
Test voltage(AC.V) I min	1000	1000	1000	1000
Contact resistance(mΩ)	5	5	10	10
Wire size(mm ² /AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20

SP 11

SP11 Series

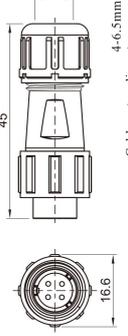
SP1110/P --- Male contact

SP1110/S --- Female contact

Cable connector
Mate with SP1111, SP1112



4-6.5mm
Cable outer diameter range



45
16.6

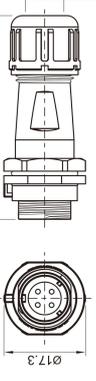
SP1111/P --- Male contact

SP1111/S --- Female contact

In-line cable connector
Mate with SP1110



4-6.5mm
Cable outer diameter range



46.5
Ø17.3

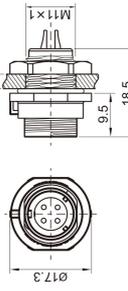
SP1112/P --- Male contact

SP1112/S --- Female contact

Rear-nut mount
Mate with SP1110



3.5 max
18.5
9.5



Panel cutout
6.6
Ø11

Solder contact spec

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	13	250	1500	3
Contact diameter (mm)	Ø1.6X2	Ø1.6X3	Ø1X4	Ø0.7x5
Rated voltage (AC V)	250	200	125	125
Test voltage (AC V) 1 min	1500	1500	1000	1000
Contact resistance (mΩ)	2.5	2.5	5	10
Wire size (mm ² /AWG)	≤2/14	≤2/14	≤0.75/18	20

SP 13

SP13 Series

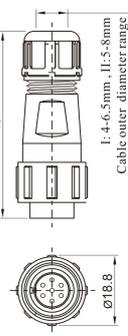
SP1310/P --- Male contact

SP1310/S --- Female contact

Cable connector
Mate with SP1311, SP1311C, SP1312



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



49
Ø18.8

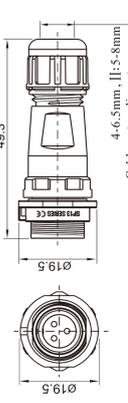
SP1311C/P --- Male contact

SP1311C/S --- Female contact

In-line cable connector C
Mate with SP1310



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



49.3
Ø19.5

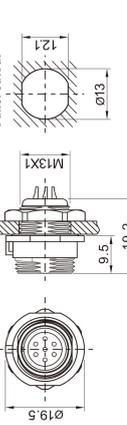
SP1312/P --- Male contact

SP1312/S --- Female contact

Rear-nut mount
Mate with SP1310



3.5 max
19.2
9.5



Panel cutout
12.1
Ø13

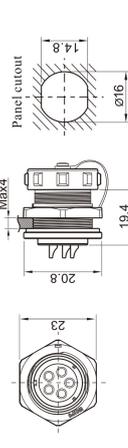
SP1315/P --- Male contact

SP1315/S --- Female contact

Front-nut mount
Mate with SP1310



3.5 max
19.4
20.8



Panel cutout
14.8
Ø16

Solder contact spec

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