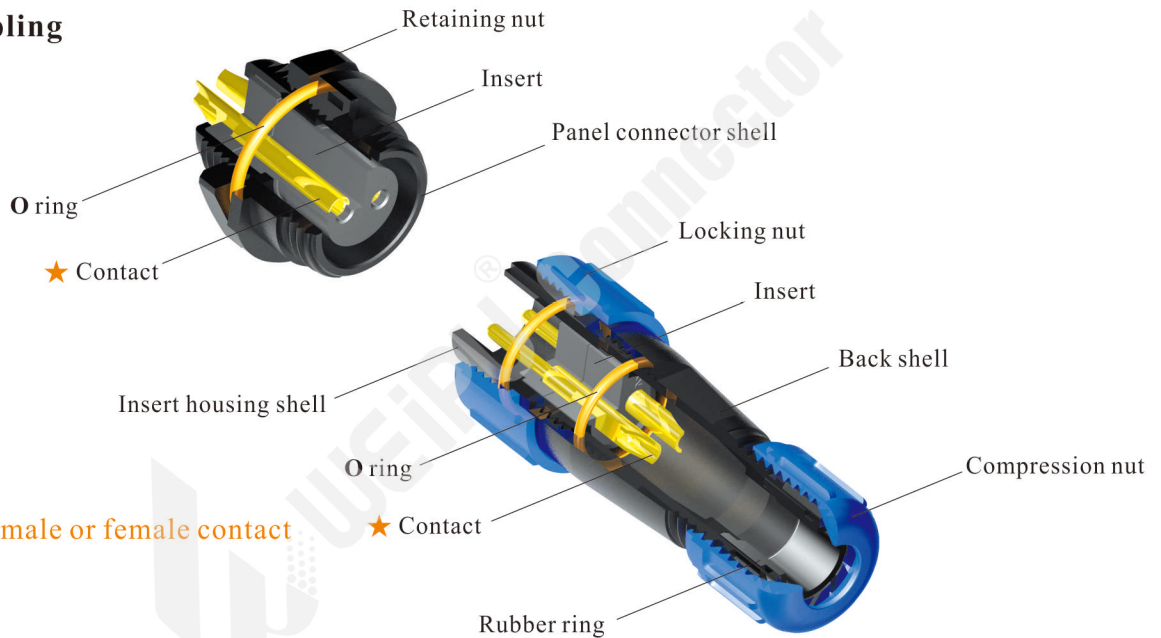




- SP Series IP68
- Threaded coupling



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 °C
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°C~+85°C
Insulation resistance (MΩ)	2000

SP21 Series IP68

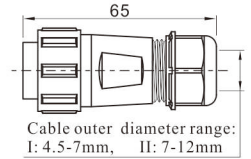
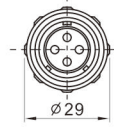
**SP
21**



Cable connector
Mate with SP2111, SP2112, SP2113

SP2110 / P --- SP2110 / S
Number of contact

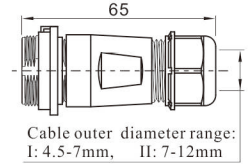
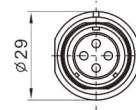
C: with cap
N: without cap
1: solder, 2: screw, 3: crimp
Cable outer diameter: I: 4.5-7mm, II: 7-12mm



In-line cable connector
Mate with SP2110

SP2111 / P --- SP2111 / S

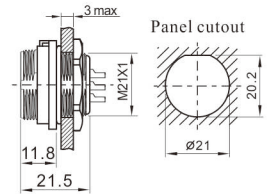
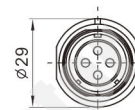
C: with cap
N: without cap



Rear-nut mount
Mate with SP2110

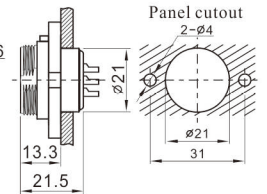
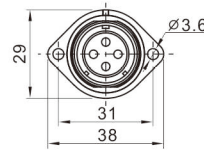
SP2112 / P --- SP2112 / S
Number of contact

C: with cap
N: without cap
1: solder, 2: screw, 3: crimp



2-hole flange
Mate with SP2110

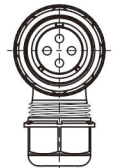
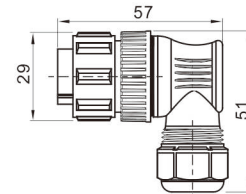
SP2113 / P --- SP2113 / S



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



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 (mm ² /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 (mm ² /AWG)	≤1.5/15	≤1.5/15	≤1.5/15	≤1.5/15	/	/	/	/	/

In-line cable connector
Mate with SP2110
SP2111 / S _ _ _



Rear-nut mount
Mate with SP2110
SP2112 / S _ _ _



2-hole flange
Mate with SP2110
SP2113 / S _ _ _



Front-nut mount
Mate with SP2110
SP2115 / S _ _ _
Number of contact: 1: solder, 2: screw, 3: crimp



Cable connector
Mate with SP2111, SP2112, SP2113
SP2110 / P _ _ _



Angled cable connector
Mate with SP2111, SP2112, SP2113
SP2116 / P _ _ _
Number of contact: 1: solder, 2: screw, 3: crimp
Cable outer diameter: I: 4.5-7mm, II: 7-12mm



In-line cable connector
Mate with SP2110
SP2111 / P _ _ _



Rear-nut mount
Mate with SP2110
SP2112 / P _ _ _



2-hole flange
Mate with SP2110
SP2113 / P _ _ _



Front-nut mount
Mate with SP2110
SP2115 / P _ _ _
Number of contact: 1: solder, 2: screw, 3: crimp



Cable connector
Mate with SP2111, SP2112, SP2113
SP2110 / S _ _ _



Angled cable connector
Mate with SP2111, SP2112, SP2113
SP2116 / S _ _ _
Number of contact: 1: solder, 2: screw, 3: crimp
Cable outer diameter: I: 4.5-7mm, II: 7-12mm



