



IP68

SP
13 17 21



● SP13/SP17/SP21 IP68 Threaded coupling



Material and spec

Product type	Connector	Overmolded Cable Assemblies
Coupling	Threaded coupling	Threaded coupling
Shell material	Nylon66, fire resistance : V-0	PC、PVC, fire resistance:V-0; Locking nut material: Anodized aluminum
Insert material	PPS max temperature 260℃, fire resistance : V-0	PPS max temperature 260℃, fire resistance : V-0
Contact material	Brass with gold plating	Brass with gold plating
Termination	SP13: solder, SP17: solder/crimp, SP21: solder / screw/crimp	
Cable outer diameter range	SP13 I: 4-6.5mm SP13 II: 5-8mm SP17 : 6-10mm SP21 I: 4.5-7mm SP21 II: 7-12mm	
IP rating	IP68	IP66
Mating cycle	>500	>500
Temperature range	-25℃~+85℃	-20℃~+85℃
Insulation resistance MΩ	2000	2000

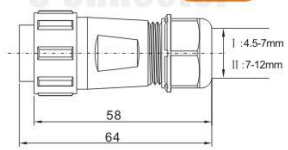
SP21 Series IP68

**SP
21**



Cable connector

Mate with SP2111, SP2112, SP2113



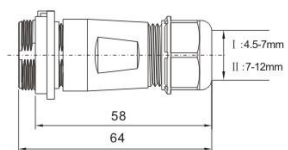
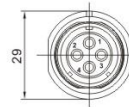
SP2110 / P _ _ _ _ SP2110 / S _ _ _ _

C: with cap, N: without cap
1: solder, 2: screw, 3: crimp
Cable outer diameter I: 4.5-7mm, II: 7-12mm
Number of contact: 2, 3, 4, 5, 5B, 5C, 7, 8, 9, 12



In-line cable connector

Mate with SP2110

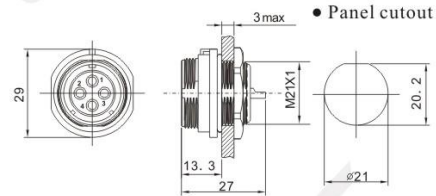


SP2111 / P _ _ _ _ SP2111 / S _ _ _ _



Front mount

Mate with SP2110

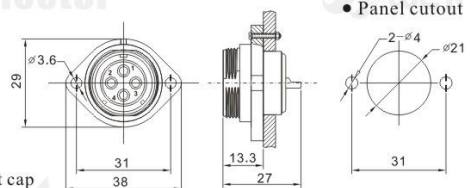


SP2112 / P _ _ _ _ SP2112 / S _ _ _ _



2-hole flange

Mate with SP2110



SP2113 / P _ _ _ _ SP2113 / S _ _ _ _

C: with cap, N: without cap
1: solder, 2: screw, 3: crimp
Number of contact: 2, 3, 4, 5, 5B, 5C, 7, 8, 9, 12

Contact arrangement and spec for solder/screw

★ For crimp spec see P49-P52

Number of contact	2	3	4	5	5B	5C	7	9	12
Male contact face view									
Rated current (A)	30A	30A	30A	30A	5A, 30A	15A	15A	5A	5A
Contact diameter	Ø 3X2	Ø 3X3	Ø 3X4	Ø 3X5	Ø 1X3 Ø 3X2	Ø 2X5	Ø 2X7	Ø 1X9	Ø 1X12
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder	solder	solder
Rated voltage (AC.V)	500V	500V	500V	500V	500V	500V	500V	500V	400V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1200V
Contact resistance mΩ	1	1	1	1	5, 1	2.5	2.5	5	5
Wire size mm²/AWG	≤4.17/11	≤4.17/11	≤4.17/11	≤4.17/11	≤0.785/18 ≤4.17/11	≤2/14	≤2/14	≤0.785/18	≤0.785/18

★ Crimp contact arrangement and spec for WS,WF,WY,WP,SP,SY series

WS20、WF20、WY20、WP20 SP21、SY21	2	3	5	7	8
Male contact face view					
Rated current (A)	25A	25A	10A	10A	5A
Contact diameter	∅ 2.5X2	∅ 2.5X3	∅ 1.5X5	∅ 1.5X7	∅ 1X8
Rated voltage (AC.V)	500V	500V	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V
Contact resistance mΩ	1	1	2.5	2.5	5
Insulation resistanceMΩ	2000	2000	2000	2000	2000