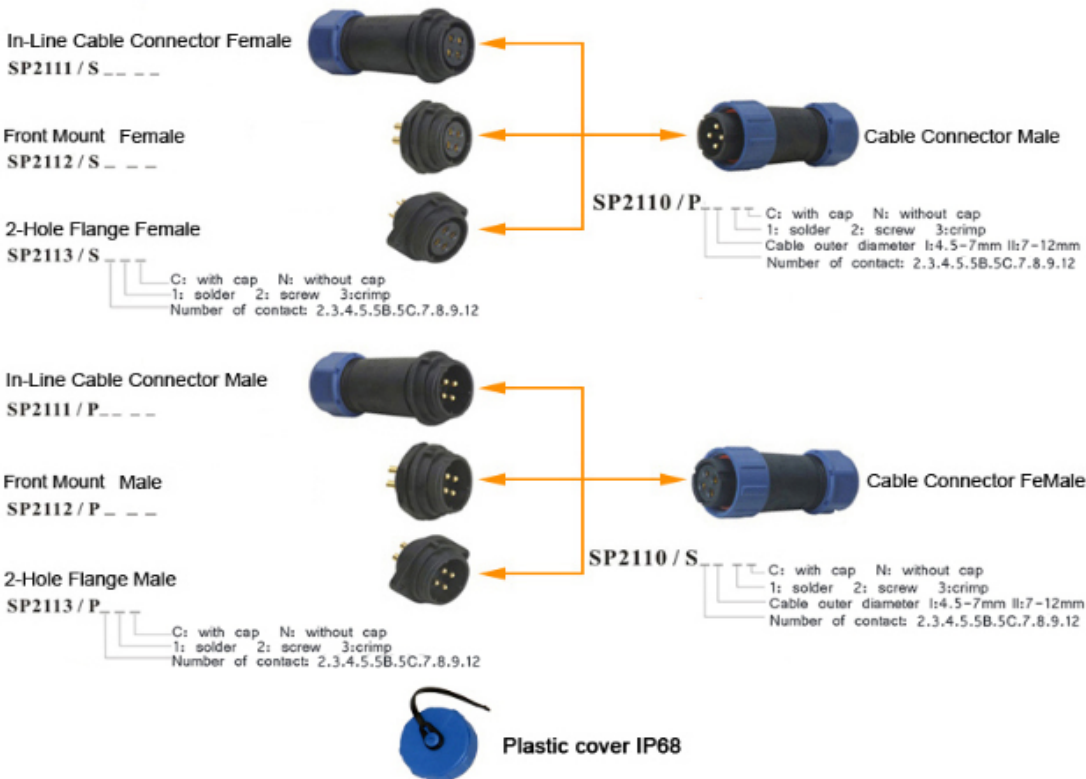


SP21 (Threaded) Front Mount Socket

Stock No: 144-4199

● SP21 Series Mating diagram







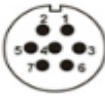




Datasheet

Material and spec






Coupling Type	Threaded Coupling
IP Rating	IP68
Material	Plastic
Shell	Nylon66, fire resistance:V-0
Insert Material	PPS max temperature 260°C, fire resistance:V-0
Contact Material	Brass with gold plating
Termination	Solder/Screw/Crimp
Cable outer diameter range	I : 4.5-7mm II : 7-12mm
Mating cycle	>500
Temperature range	-25°C ~ +85°C
Insulation resistance MΩ	2000

Contact arrangement and spec for solder/screw

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	∅ 3×2	∅ 3×3	∅ 3×4	∅ 3×5	∅ 1×3 ∅ 3×2	∅ 2×5	∅ 2×7	∅ 1×9	∅ 1×12
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 mm ² /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

Datasheet

★ Crimp contact arrangement and spec

Number of contact	2	3	5	7	8
Male contact face view					
Rated current (A)	25A	25A	10A	10A	5A
Contact diameter	∅ 2.5×2	∅ 2.5×3	∅ 1.5×5	∅ 1.5×7	∅ 1×8
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 resistance mΩ	2000	2000	2000	2000	2000

Features

The SP21, SP17 and P13 series are IP68 connectors, threaded coupling.

Compare to SP13/17, SP21 has a larger shell and higher current range, it is a strong and tough connector designed for indoor/outdoor and underwater IP68 environments. It is ideal for any application which needs watertight connection conditions.

The connectors can be used for both cable to cable (in-line) and cable to panel-mount connections. Each side can be male or female contact, (Plug or socket versions), the IP68 Sealing caps are available for both cable connector and panel connector.

- 1) shell diameter (the panel hole cutout diameter): 21mm
- 2) number of contacts : 2 -12 gold plated contacts
- 3) rated current and V : 30A-5A , 500V-400V .
- 4) cable outer diameter acceptance: type I: 4.5-7mm , type II: 7-12mm
- 5) CE , ROHS approval

Applications

SP21 (Threaded)

This IP68 connector is used for power connection , lighting industry , outdoor led lighting , outdoor LED panels, stage lighting , medical device , communications, Marine equipment, under water equipment , transformers , solar energy , control boxes , machines and equipments, for data and power.Simple crimp-and-poke technology.

