

## **Features**

- IP68 connectors
- Threaded coupling
- Material: Plastic
- Threaded Coupling Type
- Fire resistance: V-0

# RS PRO SP21 (Threaded) Front Mount Plug

RS Stock No.: 144-4204



RS PRO Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## **Industrial Circular Connectors**



#### **Product Description**

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

#### **General Specifications**

Material	Plastic					
Coupling Type	Threaded Coupling					
Shell	Nylon66, fire resistance: V-0					
Number of Contacts	2-12 gold plated contacts					
Insert Material	PPS max temperature 260°C, fire resistance: V-0					
Used for	Cable to cable (in-line) and cable to panel-mount connections					
Contact Gender	Each side can be male or female contact					
Contact Material	Brass with gold plating					
Termination	Solder/ Screw/ Crimp					
Mating cycle	>500					
Insulation resistance MΩ	2000					
Applications	SP21 (Threaded)					
	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.					

#### **Electrical Specifications**

Rated Current and V	30A – 5A, 500V-400V

## **Operation Environment Specifications**

Temperature range	-25°C ~ +85°C
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# **Industrial Circular Connectors**



#### **Mechanical Specifications**

Shell diameter (the panel hole	21mm
cutout diameter)	
Cable Outer Diameter acceptance	Type I: 4.5 – 7mm
	Type II: 7 – 12mm

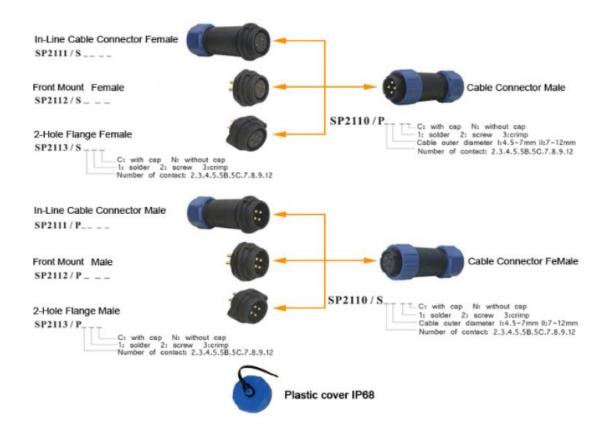
#### **Protection Category**

IP Rating	IP68
Fire resistance	V-0

#### **Approvals**

Certifications	CE, ROHS approval

#### SP21 Series Mating diagram



# **Industrial Circular Connectors**



### Contact arrangement and spec for solder/ screw

Number of contact	2	3	4	5	5B	5C	7	9	12
Male contact face view	( • i • z	2 • • 1 3 •	3 0 2	2 0 0 1 1 0 0 3 5	( • • • • • • • • • • • • • • • • • • •	2 • • 1 • • • • •	2 1 5 0 0 5 0 0 0 3	2. • • • • • • • • • • • • • • • • • • •	20 01 50 40 03 90 50 70 06 12010
Rated current (A)	30A	30A	30A	30A	5A、30A	15A	15A	5A	5A
Contact diameter	Ø 3×2	Ø <sub>3×3</sub>	Ø 3×4	Ø <sub>3×5</sub>	Ø <sub>1×3</sub> Ø <sub>3×2</sub>	Ø <sub>2×5</sub>	Ø <sub>2×7</sub>	Ø <sub>1×9</sub>	Ø <sub>1×12</sub>
Termination	solder screw	solder	solder	solder	solder	solder	solder	solder	solder
Rated voltage(AC.V)	500V	500V	500V	500V	500V	500V	500V	500V	400V
Test voltage(AC.V)	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

Number of contact	2	3	5	7	8
Male contact face view	• • • • • • • • • • • • • • • • • • • •	2.00	2 • • • • • • • • • • • • • • • • • • •	(1,4,4,4,5)	(2° ° °) (2° ° °) (2° ° °)
Rated current (A)	25A	25A	10A	10A	5A
Contact diameter	Ø <sub>2.5×2</sub>	Ø <sub>2.5×3</sub>	Ø <sub>1.5×5</sub>	Ø <sub>1.5×7</sub>	Ø <sub>1×8</sub>
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