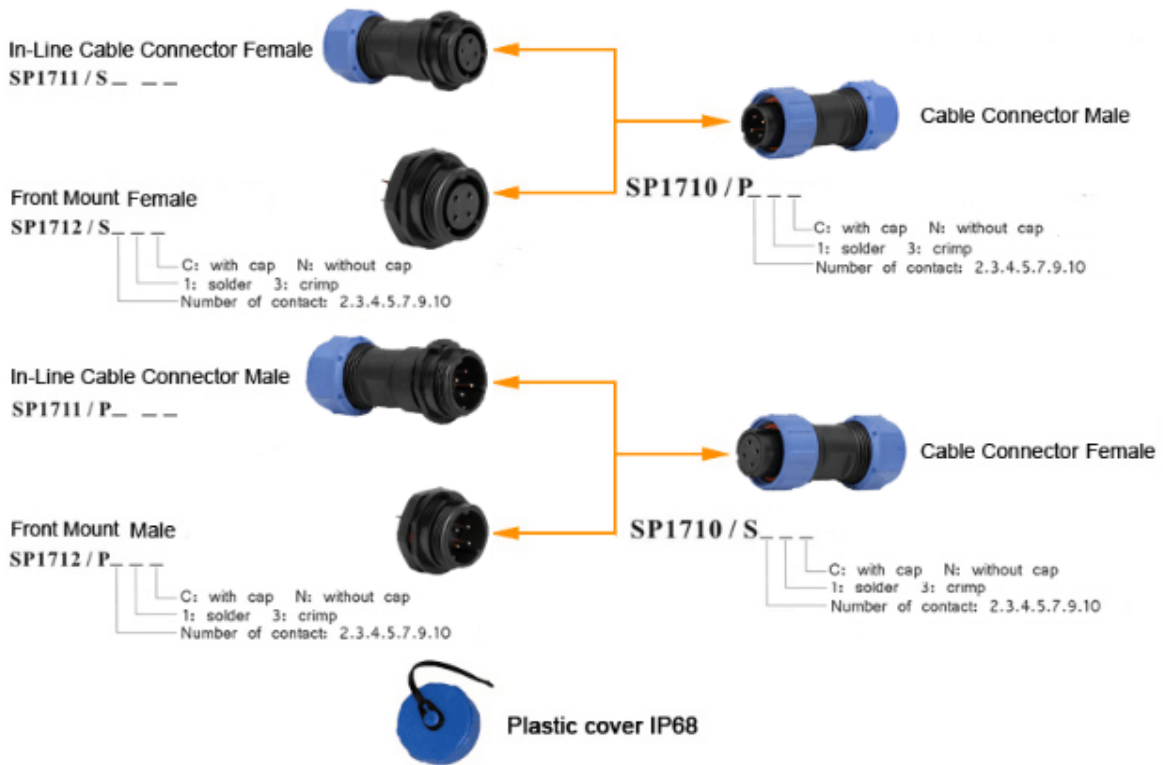


# SP17 (Threaded) In-Line Cable Connector Socket

Stock No: 144-4154

● SP17 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/Crimp                                   |
| Cable outer diameter range | 6-10mm   |
| Mating cycle               | >500   |
| Temperature range          | -25°C~+85°C                                    |
| Insulation resistance MΩ   | 2000   |

## Contact arrangement and spec for solder

| Number of contact       | 2   | 3   | 4   | 5   | 7   | 9   | 10  |
|-------------------------|---|---|---|---|---|---|---|
| Male contact face view  |  |  |  |  |  |  |  |
| Rated current (A)       | 10A   | 10A   | 5A  | 5A  | 5A  | 5A  | 5A  |
| Contact diameter        | ∅ 1.5×2   | ∅ 1.5×3   | ∅ 1×4   | ∅ 1×5   | ∅ 1×7   | ∅ 1×9   | ∅ 1×10  |
| Rated voltage(AC.V)     | 500V  | 500V  | 500V  | 500V  | 400V  | 400V  | 400V  |
| Test voltage(AC.V)1 min | 1500V   | 1500V   | 1500V   | 1500V   | 1200V   | 1200V   | 1200V   |
| Contact resistance mΩ   | 2.5   | 2.5   | 5   | 5   | 5   | 5   | 5   |
| Wire size mm2 /AWG      | ≤2/14   | ≤2/14   | ≤0.785/18   | ≤0.785/18   | ≤0.785/18   | ≤0.785/18   | ≤0.785/18   |

★ Crimp contact arrangement and spec

| Number of contact        | 2   | 3   | 4   |
|--------------------------|---|---|---|
| Male contact face view   |  |  |  |
| Rated current (A)        | 10A   | 10A   | 5A  |
| Contact diameter         | ∅ 1.5×2   | ∅ 1.5×3   | ∅ 1×4   |
| Rated voltage(AC.V)      | 500V  | 500V  | 500V  |
| Test voltage(AC.V)1 min  | 1500V   | 1500V   | 1500V   |
| Contact resistance mΩ    | 2.5   | 2.5   | 5   |
| Insulation resistance mΩ | 2000  | 2000  | 2000  |

## Features

The SP17, SP13 and SP21 series are IP68 connectors, threaded coupling.

SP17 is the medium sized plastic shell IP68 waterproof connector.

Compare to SP13, SP17 has a bigger and stronger shell, bigger cable outer diameter acceptance, higher voltage, it is a very strong and very tough connector designed for much harsher environments.

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), currently the IP68 Sealing caps are available for panel connector only.

- 1) shell diameter (the panel hole cutout diameter): 17mm
- 2) number of contacts : 2 -10 gold plated contacts
- 3) rated current and V: 13A-3A , 500V-400V
- 4) cable outer diameter acceptance : 6-10mm
- 5) CE , ROHS approval

## Applications



### SP17 (Threaded)

SP17 connector is ideal for any equipment for watertight, indoor / outdoor applications , such as outdoor electric tools or appliances , medical device , communications, Marine equipment , under water equipment , outdoor led lighting , outdoor LED panels , solar energy system, outdoor security cameras , transformer , control box, machines and equipment , packing machines , for data and power.