

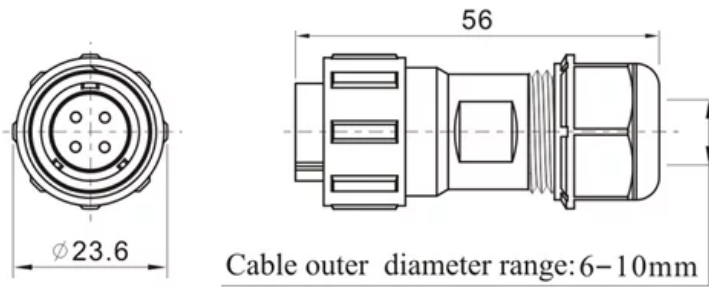


Datasheet

ENGLISH

RS PRO SP17 (Threaded) Female Cable Connector

Stock No: 144-4179










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.