FEATURES

- For Solar PV power generation systems

- Male straight connectors with NEC Interlocks & crimps

- Flame retardant thermoplastic with UV protection

- Watertight IP68

- Suitable for cable sizes from 2.5, 4.0 and 6.0mm²

- TUV certified to EN50618

RS PRO Solar Connectors- Male Straight

RS Stock No.: 2394968

RS 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.

Product Description

- *Straight connections used for connecting cables safely in Solar PV power generation systems*
- *For all solar applications with NEC interlocks and 1500V DC capability*
- *Straight Solar PV connectors with crimp connection and part of a range of branch, panel & inline fuse options and unlocking tools for safe, reliable IP rated connections in Solar power generating sets*

General Specifications

Number Of Contacts	1 per Male
Gender	Male
Body Orientation	Straight
Mounting Type	Straight connection
Connector	NEC Interlock
Part Code options	RS Pro 2394968 (Male Connector only) RS Pro 2394967 (Female Connector only) RS Pro 2394966 (Male and Female Connector Pair)
Locking system	Snap in with NEC interlock
Termination Method	Crimped Connection Internally
Contact Material	Copper with Tin plating
Insulating Material	NORYL 9406P PPE+PS
Dimensions	Male 57.5x18.8x11.0mm
Pollution Degree	3
Operating Cycle	100
Number of Bendings	100
Application	All Solar PV System generating sets
Stripping Length	8mm-10mm
Insertion Force	≤50N
Withdrawal Force	≥50N
Salt Mist Spray Test	IEC60068-2-52, Severity Level 6
Material Flammability Rating	UL94 V-0

Electrical Specifications

Current Rating	25A (2.5 mm²), 45A (4 mm²), 54A (6 mm²) TUV
Voltage Rating	1500V DC
Rated Impulse Voltage	16kV
Rated Withstand Voltage	8kV
Application Class	A
Contact Resistance	<0.25 mΩ
Fuse required?	No
Built in contacts?	No- provided in pack for crimping

Mechanical Specifications- Male

Length	57.5mm
Width	18.8mm
Depth	11.0mm
Contact Size	3.87+/- 0.05mm
Maximum Mating Force	≤50N
Minimum Unmating Force	≥50N
Stripping Length	8mm-10mm
Crimp Contact Pin Dimensions	3.87mm +/- 0.05mm

Operation Environment Specifications

Maximum Operating Temperature	+110°C Limit Temperature (+85°C Upper Ambient Temperature)
Minimum Operating Temperature	-40°C Lower Ambient Temperature

Protection Category

Degree Of Protection	IP 68 Mated Condition (10hrs @1m)

Classification

eCl@ss Version	V11.0: 27060313
UNSPSC Version	39122221
ETIM 8.0 Version	EC002635
Harmonisation Code	85369090

Approvals

Compliance/Certifications	CE / UKCA / TUV
Declarations	IEC 62582:2014 IEC 60269-2:2013 IEC 60269-1:2014

Dimensional Drawings

Male Connector
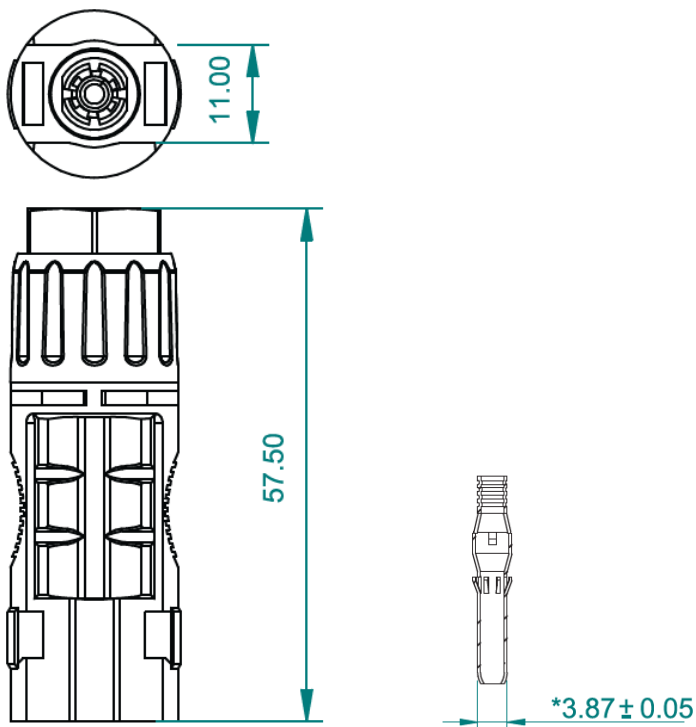
Tools

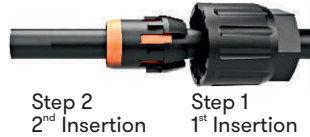| Tool required for opening	RS Pro Stock no 239-4987

Solar Connector Assembly Instructions

Step 1 Prepare the cable by inserting following components in the sequence as mentioned below:

Sequence Components
1) Connector C
2)   ommet with Collet

Step 2   Step 1
2ⁿᵈ Insertion   1ˢᵗ Insertion

Step 2 Strip the cable as per specified stripping length i.e. 8mm to 10mm

Step 3
1) Select the jaw as per cable si
2) Place the cable i
   the appropriate jaw

This part is to be held in   **1**
the jaw for crimping   **2**

Step 4
Hold the contact in a crimping tool
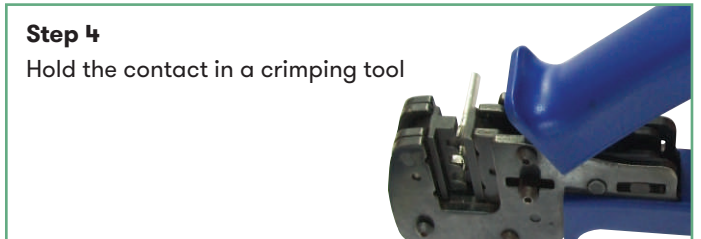
Step 5
Insert the cable into the contact

Step 6
Press the crimping tool until it release itself

Step 7
Insert the crimped contact into the straight connector until a locking sound (click) is heard

Step 8
Set the Grommet & Collet properly on connector

collet

Step 9
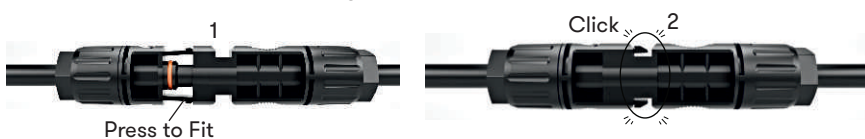Tighten the cap with Tightening tool

EPVOS-S

Step 10
The Male & Female connectors are ready for connection

Step 11
1)   ess to fit for reliable connection
2) Ens   e that it looks properly for reliable connection

1

Press to Fit

Click   2

Note: Our Connectors are suitable for PV Solar cable of 2.5/4.0/6.0 mm² diameter as per EN 50618 / IEC 62930.