

FEATURES

- For Solar PV power generation systems
- Female straight connectors with NEC Interlock, crimps and glands
- 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 – Female Straight

RS Stock No.: 2394967



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 gland which is 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 Female
Gender	Female
Body Orientation	Straight
Mounting Type	Straight connection
Connector	NEC Interlock with gland
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 with gland
Termination Method	Crimped Connection Internally
Contact Material	Copper with Tin plating
Insulating Material	NORYL 9406P PPE+PS
Dimensions	Female 55.1x18.8x11mm
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 mm ²), 45A (4 mm ²), 54A (6 mm ²) 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 - Female

Length	55.1mm
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	4.00mm +0.07mm / -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)
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Classification

eCI@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

Female Connector

