

FEATURES

- For Solar PV power generation systems
- Female branch connectors with NEC Interlocks
- Flame retardant thermoplastic with UV protection
- Watertight IP68
- Suitable for cable sizes from 2.5, 4.0 and 6.0 mm²
- TUV certified to EN50618

RS PRO Solar Connectors – Female Branch

RS Stock No.: 2394958



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

- *Branch connections used for connecting cables safely in Solar PV power generation systems*
- *For all solar applications with NEC interlocks and 1500V DC capability*
- *Branch Solar PV connectors 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	2 per Female 1 per Male
Gender	Female
Body Orientation	Branch
Mounting Type	Branch connection
Connector	NEC Interlock
Part Code options	RS Code 2394959 (Male Connector only), RS Code 2394958 (Female Connector only)
Locking system	Snap in with NEC interlock
Termination Method	Snap in
Contact Material	Copper with Tin plating
Insulating Material	NORYL 9406P PPE+PS
Dimensions	Female 56.5x42x12mm
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?	Yes

Mechanical Specifications - Female

Length	56.5mm
Width	42mm
Depth	12.0mm
Contact Size	Built in
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

