



'elmex' PV Solar Straight connectors **EMPV4** & **EMPV4N** with plug & socket design are constructed using flame retardant engineering thermoplastic suitable for exposure to UV rays & for application in PV power generation system. These connectors incorporate a flexible water tight sealing conforming to IP 68 and are supplied as 'male (plug)' & 'female (socket)' types to minimize the chance of wrong connections. For proper assembly of individual male & female connectors & for proper functioning of the mated pair, it is necessary that solar cables used are TUV certified as per standard 2Pfg 1169/EN 50618. 'elmex' straight connectors are certified for PV solar cables **2.5, 4.0, 6.0 mm²** size, double insulated (Insulation plus black/red sheath) & UV protection (as UV rays tend to damage the connection).



Features

TUV Certified

Snap Fit Locking Arrangement

IP 68 Protection when mated

Low Contact Resistance

Provides UV Protection (Tested for 500 hrs as per ISO 4892-2)

Tested as per International Standards / IEC 62852

Description	Specifications
Rated Conductor Size	2.5 mm ² / 4.0 mm ² / 6.0 mm ²
Rated Voltage	1000V / 1500V DC
Rated Current	25A (2.5 mm ²), 30A (4.0 mm ² , 6.0 mm ²)
Test Voltage	6KV (1000V) / 8KV (1500V)
Degree of Protection	IP 68
Contact Material	Copper with Tin Plating
Ambient Temperature	-40° C to +85° C
Max. Operating Temp.	+110° C
Safety Class	II
Contact Resistance	< 0.5mΩ
Insertion Force	≤ 50 N
Withdrawal Force	≥ 50 N
Locking System	Snap In



Note : Our Connectors are suitable for PV Solar Cables of 2.5 / 4.0 / 6.0 mm² diameter (As per 2Pfg 1169 / EN 50618).

*Connectors when mated, need a tool to open in accordance with NEC 2014.