'elmex' PV Solar Straight Connectors

'elmex' PV Solar Straight connectors **EMPV4, EMPV4N** and **EMPV10N** with plug and socket design are constructed using flame retardant engineering thermoplastic suitable for exposure to UV rays and 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)' and 'female (socket)' types to minimize the chance of wrong connections. For proper assembly of individual male and female connectors and for proper functioning of the mated pair, it is necessary that solar cables used are TUV certified as per standard EN 50618. 'elmex' straight connectors are certified for PV solar cables **2.5, 4.0, 6.0 and 10.0 mm²** size, double insulated (Insulation plus black sheath) & UV protection (as UV rays tend to damage the connection).



R60118765

EMPV4

with NEC Interlock*



R60126561

EMPV4N

with NEC Interlock*



EMPV10N

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 Voltage	1500V DC
Rated Current	25A (2.5 mm^2), 45A (4 mm^2), 54A (6 mm^2), 70A (10mm^2)
RMS Test Voltage	8 kV (1500V)
Impulse with stand Voltage	16 kV
Degree of Protection	IP 67 / IP 68
Contact Material	Copper with Tin Plating
Ambient Temperature	-40° C to +85° C
Max. Operating Temp.	+110° C
Pollution Degree	3
Contact Resistance	≤ 0.25 mΩ
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/ 10.0 mm^2 diameter (As per EN 50618).

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