

'elmex' PV Solar Straight connectors **EMPV4** and **EMPV4N** 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 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) & 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 Voltage | 1500V DC |
| Rated Current | 25A (2.5 mm ²), 30A (4.0 mm ² , 6.0 mm 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 | < 0.5 mΩ |
| Insertion Force | ≤ 50 N |
| Withdrawal Force | ≥ 50 N |
| Locking System | Snap In |



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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.