

'elmex' PV Solar Straight Connector



'elmex' PV Solar Straight Connector EMPV4N features a plug and socket design made from flame-retardant engineering thermoplastic, 'elmex' PV connectors are built to withstand harsh environmental conditions, including prolonged exposure to UV rays, ensuring longevity and reliability in outdoor applications. EMPV4N Straight connector are IP 68 rated for water resistance which makes the connector ideal for use in various weather conditions to maintain their performance and durability. The connectors are designed as male (plug) and female (socket) types to prevent chance of wrong connections. For optimal performance, it is essential to use TUV certified DC solar cables compliant with EN 50618/IEC 62930 standards.

With NEC Interlock*



EMPV4N

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 (IEC)
Rated Current (TUV)	25 A (2.5 mm ²), 45 A (4 mm ²), 54 A (6 mm ²)
Rated Impulse Voltage	16 kV
RMS withstand Voltage	8 kV
Ambient temperature range	-40 °C ... + 85 °C (IEC)
Upper Limit Temperature	+ 110°C
Protection Class	Class II
Flammability Class	UL94-V0
Pollution Degree	2
Degree of Protection	IP68 (when mated)
Suitable cable outer diameter	4.8 mm ... 6.8 mm
Contact material	Copper with Tin Plating
Insulation material	PPO
Type of Termination	Crimping
Contact Resistance of plug connectors	≤ 0.25 mΩ
Locking System	Snap In
TÜV Rheinland certified according to IEC 62852:2014	R 60126561

Note : Our Connectors are suitable for PV Solar Cables of 2.5 / 4.0 / 6.0 mm² (As per standard EN 50618 / IEC 62930).

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