

®

*elmex*

since 1963



● **Converging Innovations**

● **Expanding Solutions**



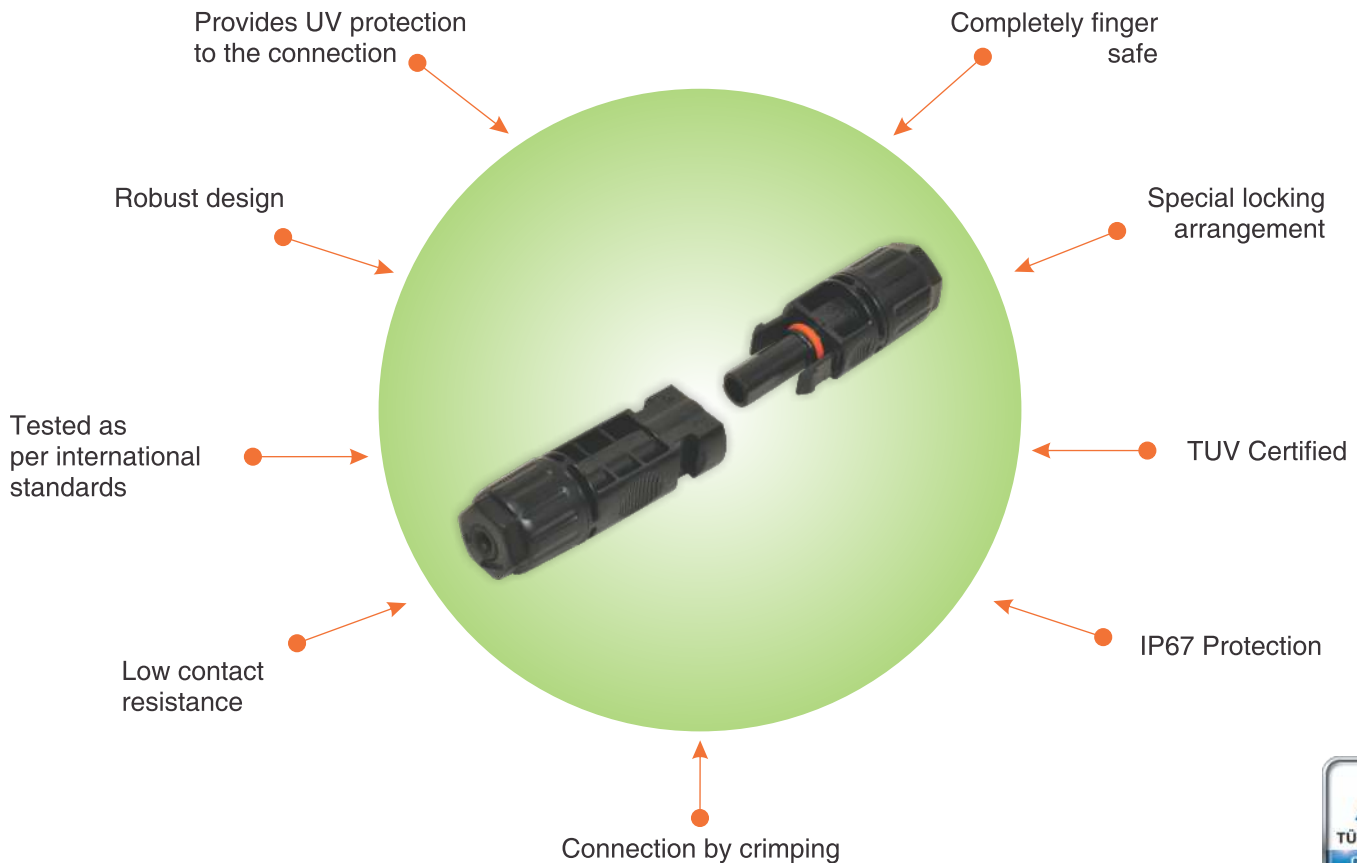
**Solutions For  
Solar Photovoltaic**

## 'elmex' PHOTOVOLTAIC SOLAR CONNECTOR EMPV4

'elmex' has developed solar straight connector with plug and socket design suitable for 2.5, 4 & 6 sq. mm. size cables and are constructed using flame retardant engineering thermoplastic suitable for photovoltaic application and exposure to UV rays. While small solar panels, commonly used for battery charging, may not require special connectors, larger terrestrial arrays for power generation involve higher currents and voltages and place special demands on both cables and connectors for safe operation. The EMPV4 connectors incorporate a flexible watertight seal and are supplied as 'male (plug)' and 'female (socket)' types to minimize the chance of wrong connections. For proper seal, they require usage with the correct diameter cable, normally double-insulated (insulation plus black/red sheath) and U.V. protection (as UV rays tend to damage the connection).

Description	'elmex' Specification
Rated Voltage	1000V DC
Rated Current	25A(2.5 mm <sup>2</sup> ), 30A (4 mm <sup>2</sup> ,6 mm <sup>2</sup> )
Test Voltage	6KV (50HZ)
Degree of Protection	IP 67
Contact Material	Copper With Tin Plating
Operating Temperature	- 40°C TO 95°C
Safety Class	II
Contact Resistance	≤0.5 mΩ
Insertion Force	≤50 N
Withdrawal Force	≥50 N
Suitable Cable	2.5 mm <sup>2</sup> /4 mm <sup>2</sup> /6 mm <sup>2</sup>
Locking System	Snap In

### Salient Features





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