

Solar Photovoltaic Cables

Solar photovoltaic cables are used for transmitting electrical power generated from the solar panel to the charging units, battery banks, change over systems, inverters etc. The cables that are used to carry power from the solar panels to the charging units have to function effectively while remaining exposed to a wide range of severe environmental conditions.

Construction

Size (Sq mm)	Number of Strands/ Diameter	Nominal Outer dia (mm)	Max Conductor Resistance Ohms/km
2.5	50/0.25	5.50	8.21
4.0	56/0.30	6.00	5.09
6.0	85/0.30	6.80	3.39
10.0	140/0.30	7.70	1.95
16.0	128/0.40	8.80	1.24

Size (Sq mm)	Single cable in Air (Amps)	Single cable on surface (Amps)	Multiple Cable on Surface (Amps)
2.5	41	39	33
4.0	55	52	44
6.0	70	67	57
10.0	98	93	79
16.0	132	125	107

Voltage Grade	: 600/1000 VAC 1000/1800 VDC
Temperature Range	: -40° C to 90° C
Maximum Conductor Temperature	: 120° C Withstands 250° C for 5 seconds
Conductor	: Tin Coated Copper Class 5 conductor
Insulation	: Electron Beam Irradiated Cross linked Polyolefin Compound
Standards	: TUV – 2PIG 1169/07 2008 (Standard for Photovoltaic cables) or BSEN 50618-2014 (Covers upto 240 Sq. mm)
Features	: Resistant to Ozone, Water absorption, & severe environmental conditions Working life of more than 25 years

