

DC Solar Cable



Solar cables are exclusively made for applications in photovoltaic power systems. A solar cable interconnects solar panels and other electrical components of photovoltaic system. These solar cables are designed to be UV & Ozone resistant, Chemical and Oil resistant, with excellent FR properties, propagates smoke with low capacity when burned with external source and contains absolutely ZERO or low halogen. This cable can survive extreme weather conditions. It can be used within a large temperature range and are generally laid outside. These cable can be installed at indoor in hazard area, in explosion areas, in industry and in agriculture.

Design : DC Solar cable are single core copper cables each for +ve and -ve, They are insulated with cross linkable polyolefin compound and sheathed with halogen free polyolefin compound.(generally conforming to BS EN 50618:2014)

SIZE cross-sectional area in (sqmm)	Max. Conductor D.C. Resistance at 20 °C in ohm/ (km)	Average Diameter of Conductor (in mm)	Approx. Overall Diameter of cable (in mm)		Approximate Overall weight (in kg/km)	Minimum Bending radius (in mm)	Current rating under continuous operation 90°C and ambient temperature 40°C (in A)	Short circuit current rating for 1 sec. duration (in KA)
1.5	13.7	1.46	4.46	4.86	35	19	22	0.189
2.5	8.21	1.88	4.88	5.28	46	21	30	0.315
4.0	5.09	2.39	5.39	5.79	64	23	42	0.504
6.0	3.39	2.93	5.93	6.33	84	25	52	0.756
10	1.95	3.86	7.26	7.66	133	31	76	1.26
16	1.24	5.39	8.79	9.19	195	37	95	2.02
25	0.795	6.73	10.53	11.13	290	45	124	3.15
35	0.565	8.08	11.88	12.48	390	50	159	4.41
50	0.393	9.69	13.49	14.09	530	56	185	6.30
70	0.277	11.54	15.34	15.94	715	64	239	8.82
95	0.210	13.25	17.05	17.85	920	71	290	11.97
120	0.164	15.00	18.80	19.60	1150	78	335	15.12
150	0.132	16.77	21.37	22.37	1460	89	385	18.90
185	0.108	18.54	23.54	24.54	1770	98	440	23.31
240	0.0817	21.33	26.33	27.33	2300	110	520	30.24

Special Features

- Lasts up to 30 years even under tough external conditions.
- Resists extreme temperatures (-40°C to 120°C maximum at the core) and ozone resistant.
- Full protection against ultraviolet rays.
- Low smoke emission & low toxicity / corrosivity during fire.
- Flame retardant, fire retardant.
- Fast & Easy installation with color identification.
- In accordance with new environmental regulations.
- Suitable to common connector types.