

Solar Cable

DC Single Core

Double insulation, electron-beam cross linked cables for photovoltaic power station

Construction

- Conductor: Tinned copper, according to the VDE 0295/IEC 60228, Class5
- Insulation: Polyolefin copolymer electron-beam cross-linked
- Outer sheath: Polyolefin copolymer electron-beam cross-linked
- Sheath color: Black/Red/Blue or as per customer's request



Technical Specification

- Nominal Voltage: U₀/U=600/1000VAC, 1000/1800VDC
- Test Voltage: 6500V, 50Hz, 5Min.
- Temperature Rating: 45°C upto +125°C; -40°F upto +257°F
- Ambient temperature: 25 year (TUV); -40°C upto +90°C; -40°F upto +194°F
- Max.Short circuit temperature: 28°C, +536°F
- Bending Radius: Fixed installation > 4X; Occasionally moved > 5X

Dimensions Parameter

Construction	Conductor Construction	Conductor Φ	Outer Φ	Resistance Max	Current Carring Capacity
N×mm ²	n/m	mm	mm	Ω/Km	A
1×1.5	30/0.25	1.58	4.90	13.30	30
1×2.5	50/0.25	2.02	5.45	7.98	41
1×4.0	56/0.30	2.30	6.10	4.75	55
1×6.0	84./0.30	3.42	7.20	3.39	70
1×10.0	142/0.30	4.56	9.00	1.95	98
1×16.0	228/0.30	5.60	10.20	1.24	132
1×25.0	361/0.30	6.95	12.00	0.795	176
1×35.0	525/0.30	8.74	13.80	0.565	218
1×50.0	720/0.30	9.20	14.80	0.393	280
1×70.0	988/0.30	11.00	16.90	0.277	350
1×95.0	1349/0.30	12.50	18.70	0.21	410
1×120.0	1691/0.30	14.20	20.70	0.164	480

The current-carrying capacity is under the situation of laying the single cable in air.e products' detailed description please refer to the specification for approval.

Advantages

- Electron-beam cross-linked compounds
- UV, ozone and hydrolysis resistant
- High temperature resistant, the materials do not melt or flow
- Good cold flexibility
- Very long service life > 25 years at 90°C
- Compatible to all popular connectors

Material Properties/Standards

- Fire-resistance performance: IEC 60332-1
- Smoke emission: IEC 61034; EN 50268-2
- Low fire load: DIN 51900
- Approvals: TUV 2PFG 1169/08.2007 PV1-F
- Application standards: UNE 211 23 / UNE 20.460-5-52 / UTE C 32-502