DC SINGLE CORE SOLAR PV CABLE

Cross Section mm²	Conductor Construction n/mm	Conductor Stranded OD.[mm]	Cable OD. mm	Conductor Max.Resistance AT 20℃ Ω/Km	Current Carring Capacity AT 60℃[A]
1.5	30/0.25	1.58	4.80	13.5	25
2.5	49/0.25	1.98	5.30	8.21	36
4	56/0.285	2.35	5.80	5.09	44
6	84/0.285	3.06	6.60	3.39	60
10	80/0.4	4.60	8.00	1.95	82
16	120/0.4	5.60	10	1.24	122
25	196/0.4	6.95	12	0.795	160
35	276/0.4	8.30	13.30	0.565	200

Characteristics

Conductor	Stranded Tinned Copper
Insulation	Halogen Free Cross-linked Polyolefin[XLPO]
Diameter	Halogen Free Cross-linked Polyolefin[XLPO]
Rated Temperature	-40℃ up~ +90℃
Rated Voltage	Ac:0.6/1KV DC:1.5KV
Weathering Resistance	Sun Resistant
Standard	2 PfG 1169 08.2007; EN 50618: 2014; NB/T42073-2016

TUV SUD EN50616:2014 H1Z2Z2-K(CQC NB/T42073-2016 PV-YJYJ)DC 1.5KV Gandian Lightning Protection Electric Co., Ltd.

Cable Description

- Cable Full Name: Halogen-free low smoke cross-linked polyolefin Insulated and sheathed cables for photovoltaic power generation systems.
- Conductor Structure: EN60228(IEC60228.GB/T3956)Type five conductor and must be tinned copper wire
- Cable Color: Black or Red(The insulation material shall be extryded halogen-free material.which shall be composed of one layer or several tightly adhered layers. The insulation shall be solid and uniform in material and the insulation itself, the conductor and the tin layer shall be as far as possible not damaged when the insulation is peeled off)
- Cable Characteristics: Double insulated construction. Higher systems bear voltage、UV radiation、Low and High tem-Perature resistant environment.

Technical Data

Nominal Voltage	DC:1.5KV AC:1.0/1.0KV
Voltage Tesi On Completed Cable	AC:6.5KV DC:15KV.5min
Ambient Temperature	Max.ambient temperature:90℃ Min.temperature for installation and handing::-25℃ Max.storage temperature:+40℃
Thermal Endurance Properties	120℃.20000h.elongation at break≥50%
Refer To Short Circuit Allows The Temperature	The permitted short-circuit-temperayure is 250℃ referring to a period of 5s
Pressure Test At High Temperature	EN60811-3-1
Damp Heat Test	EN60068-2-78
Resistance Against Alkaline And Acid Solutions	EN60811-2-1
Ozone Resistance At Complete Cable	EN50396
Thermal Endurance Test	EN60216-2
Cold Bending Test	EN60811-1-4
Weathering/UV Resistance	EN50289-4-17
Test Of Vertical Flame Propagation At Complete Cable	EN60332-1-2
Halogen Content Test	EN60754-1/EN60754-2