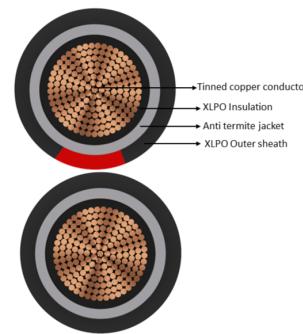


Photovoltaic Power Cable, Halogen Free, Flame Retardant



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB low smoke, halogen free, flexible single core cable with electron beam cross linked insulation and sheath is designed to use for Photovoltaic installation at the Direct current side. These cables are suitable for permanent outdoor use under variable climatic condition.

CHARACTERISTICS

Voltage Rating

Nominal Voltage: 1500 V DC between conductors as well as conductor and earth. Max permitted voltage: 1800 V

Operation Temperature

Fixed: -40°C to +120° C

Maximum conductor temperature: +120° C

Bending Radius

For fixed installation - >15 D

For occasional moved - > 25 D

CONSTRUCTION

- Conductor: Tinned copper conductor as per IEC 60228, class 5.
- Insulation: E-Beam cross linked halogen free and flame-retardant compound (XLPO), Colour: Black
- Anti Termite Jacket: Polyamide (Nylon), Colour: Black
- Sheath: E-Beam cross linked halogen free and flame-retardant compound (XLPO)

Core Identification

Black & Black with red Strip

OUTSTANDING FEATURES

- Halogen free
- Electron Beam Cross-linked
- Flame retardant
- High life
- Flexibility
- UV, Ozone resistant
- Hydrolysis resistant
- High temperature resistant
- Termite Resistant

STANDARD FOLLOWS

IEC 60228

EN 50618

IEC 60332-1-2

UL 4703

IEC 62930

COMPLIANCE

Fire Performance	- EN 60332-1
Smoke Emission	- IEC 61034/ EN 50268-2
Halogen free material	- EN 50267-2-1 / IEC 60754-2
Toxicity	- EN 50305
Resistance to ozone	- EN 50396
Weathering / UV	- HD 605/A1 or DIN 53667
Life Expectancy	- IEC 60216

OUR ACCREDITATIONS



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WEIGHT, DIMENSION & ELECTRICAL DATA :

Single Core Cross sectional Area	Nominal insulation thickness	Nylon Jacket thickness	Nominal Sheath thickness	Nominal Overall Diameter	Weight (Approx.)	Max. DC Resistance at 20° C	Current Rating capacity		
							single cable in air	Single cable freeable on a surface	Two loaded cables touching on a surface
mm ²	mm	mm	mm	mm	Kg/Km	Ω/km	Amp.	Amp.	Amp.
2.5	0.7	0.2	0.8	6.2	63	8.21	41	39	33
4.0	0.7	0.2	0.8	6.8	77	5.09	55	52	44
6.0	0.7	0.2	0.8	7.4	99	3.39	70	67	57
10	0.7	0.2	0.8	8.3	142	1.95	98	93	79
16	0.7	0.2	0.9	9.6	208	1.24	132	125	107
25	0.9	0.2	1.0	11.4	314	0.795	176	167	142
35	0.9	0.2	1.1	12.8	418	0.565	218	207	176
50	1.0	0.2	1.1	14.8	576	0.393	276	262	221
70	1.1	0.2	1.2	16.6	782	0.277	347	330	278
95	1.1	0.2	1.3	18.7	1005	0.21	416	395	333
120	1.2	0.4	1.3	21.1	1281	0.164	488	464	390
150	1.4	0.4	1.4	23.1	1585	0.132	566	538	453
185	1.6	0.4	1.6	25.7	1940	0.108	644	612	515
240	1.7	0.4	1.7	28.6	2522	0.0817	775	736	620

De-rating factor :

Current Ratings are based on EN 50618 at Max. Conductor Temperature 120°C and Ambient Air temperature 60°C.

Current rating de-rating factors other than 60°C ambient temperature.

up to 60	70	80	90
1.00	0.92	0.84	0.75