

POLYCAB SOLAR H1Z2Z2-K BS EN 50618 – TWIN ANTI TERMITE

Photovoltaic Power Cable, Halogen Free, Flame Retardant



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB low smoke, halogen free, flexible two single cores 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)
- Anti Termite Jacket: Polyamide (Nylon) Sacrificial Layer, Colour: Black
- Sheath: E-Beam cross linked halogen free and flame-retardant compound (XLPO), Colour: Black

Core Identification

(+ve) Red, (-ve) Black

Test Voltage

6.5kv AC 50Hz

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 & ELETCRICAL DATA :

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 free in air	Single cable on a surface	Two loaded cables touching on a surface
mm ²	mm	mm	mm	mm	Kg/Km	Ω/km	Amp.	Amp.	Amp.
2 x 2.5	0.7	0.2	0.8	6.2 x 12.4	8.21	126	41	39	33
2 x 4.0	0.7	0.2	0.8	6.8 x 13.6	5.09	153	55	52	44
2 x 6.0	0.7	0.2	0.8	7.4 x 14.8	3.39	197	70	67	57
2 x 10	0.7	0.2	0.8	8.3 x 16.6	1.95	283	98	93	79
2 x 16	0.7	0.2	0.8	9.6 x 19.2	1.24	416	132	125	107

De-rating factor :

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

up to 60	70	80	90
1.00	0.92	0.84	0.75