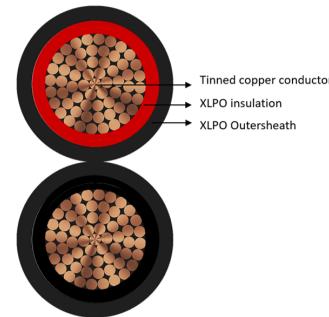


POLY CAB SOLAR H1Z2Z2-K BS EN 50618 - TWIN Photovoltaic Power Cable, Halogen Free, Flame Retardant

POLY CAB
IDEAS. CONNECTED.



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 - > 6D

For occasional moved - > 8D

CONSTRUCTION

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

Core Identification

(+ve) Red, (-ve) Black

OUTSTANDING FEATURES

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



POLYCARB SOLAR H1Z2Z2-K BS EN 50618 - TWIN Photovoltaic Power Cable, Halogen Free, Flame Retardant

POLYCARB
IDEAS. CONNECTED.

WEIGHT , DIMENSION & ELECTRICAL DATA :

Cross sectional Area $n \times \text{mm}^2$	Nominal insulation thickness mm	Nominal Sheath thickness mm	Nominal Overall Diameter mm	Weight (Approx.) Kg/Km	Max. DC Resistance at 20° C Ω/km	Current Rating capacity		
						Single cable free in air Amp.	Single cable on a surface Amp.	Two loaded cables touching on a surface Amp.
2 x 2.5	0.7	0.8	5.2 x 10.4	99	8.21	41	39	33
2 x 4.0	0.7	0.8	5.8 x 11.6	128	5.09	55	52	44
2 x 6.0	0.7	0.8	6.4 x 12.8	170	3.39	70	67	57
2 x 10	0.7	0.8	7.3 x 14.6	252	1.95	98	93	79
2 x 16	0.7	0.8	8.6 x 17.2	380	1.24	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 rating de-rating factors other than 60°C ambient temperature.

up to 60	70	80	90
1.00	0.92	0.84	0.75