



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



**WEIGHT , DIMENSION & ELECTRICAL DATA :**

Cross sectional Area	Nominal insulation 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
n x mm <sup>2</sup>	mm	mm	mm	Kg/Km	Ω/km	Amp.	Amp.	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