



TECHNICAL DATASHEET

Sr.No.	Description	Unit	4		6	
			SQ.MM		SQ.MM	
1	Manufacturer Name		Polycab Wires Private Limited,India			
2	Cable type and Applicable Standard (Cable Code)		Solar DC Cable as per BS EN 50618 (H1Z2Z2-K)			
3	Rated d.c. Voltage		1.5 kV			
4	Rated a.c. Voltage		1.0/1.0 kV			
5	CONDUCTOR					
a)	Material		Annealed Tinned Flexible copper conductor as per Class 5 of BS EN 60228			
b)	Conductor Size	Sq.mm	4		6	
d)	Max. D.C Cond. Resistance at 20 Deg. C.	Ohm/km	5.09		3.39	
6	INSULATION					
a)	Material		E-Beam Cross linkable LSOH Compound (Polyolefin Type) as per Annexure B Table B.1 of BS EN 50618			
b)	Nominal Thickness	mm	0.7		0.7	
c)	Minimum Thickness at any point	mm	0.53		0.53	
d)	Core Identification		Black Red		Black Red	
e)	Minimum Insulation Resistance at 20°C	MΩ.km	580		500	
f)	Minimum Insulation Resistance at 90°C	MΩ.km	0.58		0.5	
7	Sheath					
a)	Material		E-Beam Cross linkable LSOH (Polyolefin Type) Compound as per Annexure B Table B.1 of BS EN 50618			
b)	Nominal Thickness	mm	0.8		0.8	
c)	Minimum Thickness at any point	mm	0.58		0.58	
d)	Sheath Colour		Black Black with red stripe			
8	Nominal Overall Diameter	mm	5.7 ± 0.4 mm		6.3 ± 0.4 mm	
9	Shape of Cable		Circular			
10	Current rating in Air at 60°C (Single cable free in air)	A	55		70	
11	Lower operating temperature	°C	- 25°C			
12	Upper operating temperature	°C	+ 90°C			
13	Max. conductor temp. under normal operating conditions	°C	120°C (20000h)			
14	Max. conductor temp at the termination of short circuit	°C	250°C for 5seconds			
15	HV Test (A.C.)		6.5 kV for 5 Mins.			
	(D.C.)		15 kV for 5 Mins.			
19	Recommended minimum bending radius in mm		8 - 10 times the overall diameter of the cable			
20	Max. Tensile strength when pulled with pulling eye	Kg	20		31	
21	Printing		YEAR 'H1Z2Z2-K' POLYCAB 1.5KV DC SOLAR CABLE SIZE EBXL 'EN 50618:2014' WITH SEQUENTIAL METER MARKING			

Note:-The values given above are subject to tolerances as per the relevant standards.

Note for marking : 1)The Distance between the end of one elements of marking & the beginning of the next identical elements of marking shall be not greater than 550 mm (the letter and figures shall consist of upright block characters with a minimum height of 3 mm)

TDS NO 180623-2545
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