

Customer : PX Cables

Sr.No.	Description	Unit	1C x 4 Sq.mm	1C x 6 Sq.mm
1	Manufacturer Name		Polycab India Ltd.	
2	Cable type/Code		Solar DC Cable 'H1Z222-K' as per BS EN 50618	
3	Rated a.c. Voltage		1.0/1.0 kV	
	Nominal d.c. Voltage		1.5 kV (Between Conductors as well as between Conductor & Earth)	
4	CONDUCTOR			
	a) Material		Annealed Tinned Flexible copper conductor as per Class 5 of EN 60228	
	b) Conductor Size	Sq.mm	4	6
	c) Max. D.C Cond. Resistance at 20 Deg. C.	Ohm/km	5.09	3.39
5	INSULATION			
	a) Material		E beam XLPO 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 point	mm	0.53	0.53
	d) Core Identification		Red / Black	Red / Black
	e) Minimum Insulation Resistance at 20°C	MΩ.km	580	500
	f) Minimum Insulation Resistance at 90°C	MΩ.km	0.58	0.50
	g) Tensile Strength	N/mm ²	8 N/mm ² according to EN 60811	
	h) Elongation at Break	%	125% according to EN 60811	
6	SHEATH			
	a) Material		E beam XLPO Compound (Polyolefin Type) as per Annexure B Table B.1 of BS EN 50618	
	b) Nominal Thickness	mm	0.8	0.8
	c) Minimum Thickness at point	mm	0.58	0.58
	d) Sheath Colour		Black with Red Strip / Black	Black with Red Strip / Black
	e) Tensile Strength	N/mm ²	8 N/mm ² according to EN 60811	
	f) Elongation at Break	%	125% according to EN 60811	
7	a) Overall Diameter (Max.)	mm	6.6	7.4
	b) Approx. Cable Weight	Kg/km	56	74
	c) Shape of Cable		Circular	Circular
8	Current carrying capacity			
	a) Single cable free in air	A	55	70
	b) Single cable on a surface	A	52	67
	c) Two loaded cables touching, on a surface	A	44	57
9	a) Lower operating temperature	°C	- 40°C	- 40°C
	b) Upper operating temperature	°C	+ 90°C	+ 90°C
10	Max. conductor temp. under normal operating conditions	°C	120°C (20000h)	
11	Max. conductor temp at the termination of short circuit	°C	250°C for 5seconds	
12	a) HV Test (A.C.)		6.5 kV for 5 Mins.	
	b) (D.C.)		15 kV for 5 Mins.	
	c) Surface Resistance Test		≥ 10 ⁹ as per BS 50395	
13	Standards to which the cables confirm		BS EN 50618, Flame retardant according to IEC 60332-1-2, Halogen free according to EN 50627-2-2, Ozone resistant according EN 50396, Weather/UV resistant according to DIN 53387	
14	Recommended minimum bending radius in mm		8 - 10 times the overall diameter of the cable	
15	Max. Tensile strength when pulled with pulling eye	Kg	20	31
16	Printing @ one meter interval		YEAR POLYCAB 1.5 KV DC SOLAR CABLE 'H1Z222-K' 4 SQMM EBXL TUV Rheinland EN 50618:2014	YEAR POLYCAB 1.5 KV DC SOLAR CABLE 'H1Z222-K' 6 SQMM EBXL TUV Rheinland EN 50618:2014

**Note:-1. The values given above are subject to tolerances as per the relevant standards.
2. Cable shall be suitable for Direct Burial Installation**