



Technical Data Sheet of Solar DC Cables (Type-1)

Sr.No.	Description	Unit	1C x 4 Sq.mm
1	Manufacturer Name		Polycab Wires Private Limited
2	Brand Name		POLYCAB
3	Rated a.c. Voltage		0.6/1 kV
	Rated d.c. Voltage		1.8 kV
4	CONDUCTOR		
a)	Material		Annealed Tinned Flexible copper conductor as per Class 5 of IEC-60228 / DIN VDE 0295
b)	Conductor Size	Sq.mm	4
c)	No/Maximum Dia. of strands	No/mm	56 x 0.3
d)	Max. D.C Cond. Resistance at 20 Deg. C.	Ohm/km	5.09
5	INSULATION		
a)	Material		Electron Beam Cross Linkable Halogen Free Fire Retardant Compound
b)	Minimum Thickness	mm	0.5
c)	Inulation colour		Red for +ve DC & Black for -ve DC
6	Sheath		
a)	Material		Electron Beam Cross Linkable Halogen Free Fire Retardant Compound
c)	Minimum Thickness	mm	0.5
c)	Outer sheath colour		Black with Red Stripe outer sheathing for +ve DC & Black outer sheathing for -ve DC
7	Nominal Overall Diameter	mm	5.1 ± 0.5 mm
8	Current rating in Air	A	55
9 a)	Lower ambient temperature	°C	- 40°C
b)	Upper ambient temperature	°C	+ 90°C
10	Max. conductor temp. under normal operating conditions	°C	120°C
11	Max. conductor temp at the termination of short circuit	°C	200°C for 5seconds
12	Standards to which the cables confirm		TUV Specification-2 Pfg 1169/08.2007, Flame retardant according to IEC 60332-1-2, Halogen free according to EN 50627-2-2, Ozone resistant according to EN 50396, Weather/UV resistant according to DIN 53387
13	Recommended minimum bending radius in mm		8 - 10 times the overall diameter of the cable
14	Max. Tensile strength when pulled with pulling eye	Kg	20
15	Printing		Year of mfg. "PV1-F" POLYCAB SOLAR DC CABLE 1CORE x 4 SQ.MM AS PER TUV 2Pfg 1169/08 2007

**TDS NO.160310-5709
FOR POLYCAB WIRES PVT. LTD.
SONAM**