



Solar4WD
POWERING A SUSTAINABLE FUTURE



Solar DC Cable



Electron beam cross linked compound



Halogen free



UV, Ozone & Temperature Resistant



Excellent Encapsulation



Flame retardant, Low smoke



Technical Specification

Sr No.	Particulars	UoM	Specifications	
1	Core Cross Section	sq.mm	1C X 4	
2	Applicable Standard	-	EN 50618& IEC 62930	
3	Type of Cable	-	Solar Cable	
4	Voltage Grade	KV	1.0/1.0 kV (AC)	
		KV	≥1.5kV (DC)	
5	No. of Cores	No	1	
Conductor				
6	a) Material	-	Fine Wire Strands Annealed Tinned Copper	
	b) Nom Size	sq.mm	4	
	c) No. of Strands	-	56	
	d) Shape	-	Flexible (Class-5) As per IEC60228:2004	
	e) Nominal wire diameter	mm	0.3	
	f) Approximate conductor diameter	mm	2.44	
	g) Max. D.C. Resistance	Ohm/Km	5.09	
Insulation				
7	a) Material	-	Electron Beam Cross Linked Co-Polymer Halogen Free (XLPO(Polyolefin))	
	b) Nominal Thickness	mm	1.14	
	c) Colour of Insulation	-	Black	
	d) Minimum Insulation Resistance	Mega Ohm @20deg.C	580	
Outer Sheath				
8	a) Materia	-	Electron Beam Cross Linked Co-Polymer Halogen Free (XLPO(Polyolefin))	
	b) Nominal Thickness	mm	0.76	
	c) Colour	-	Black	
9	Overall Diameter of Cable	mm	6.3±0.1	
10	Approx.net weight of Cable	Kg/Km	≥68	
11	Approx.net weight of Cable	Kg/Km	≥31.5	
Property of cable				
12	Test Voltage	-	6.5kV AC for 5 min.	
	Tinned fine copper strands (Class-5)	-	Confirm (As per IEC:60228-2004)	
	Fire Performance	-	Confirm (As per IEC:60332-1)	
	Smoke Emission	-	60% Transmittance(min)(As per IEC: 61034)	
	Conductor Temperature			
	a) Maximum conductor temperature a rated current	C	90	
	b) Maximum conductor temperature at the end of short circuit	C	250	
	c) Conductor temperature when overload capacity	C	120	
	d) Minimum conductor temperature at rated current	C	-40	
	e) Operating Temperature	C	-40 to +120	
	Service life	-	Expected service life 25 years	
	Halogen free	-	As per IEC:60754-1	
Resistance to chemical and oils	-	As per EN:50618		
Min Bending radius of cable	mm	5 times OD		
Current Rating				
a) In Air (up to 60 C)	Amp	55		
b) Single cable on surface	Amp	52		
c) Two cables adjacent on surface	Amp	44		
13	Printing	-	0000M "DhaSh" 1.8 KV DC EBXL XLPO/XLPO 1200C 'H1Z2Z2-K' EN50618 / 62930 IEC131 SOLARCABLEZH-FRLS 1C X 4 SQMM 2021	