

Guaranteed Technical Particulars

Ref : STPL/18951(R)-1/21-22 dated 13/04/2021

Rev : 00

Date : 16.07.2021

Prepared by : C.R

Checked by : A.K.S.N

Cable Description : 1Cx4 Sq.mm Annealed Tinned Flexible Copper Conductor, EBXL XLPO Insulated and Sheathed Solar Cable

Part Number			A47619XXYY
S.No	Particulars	Unit	1 x 4
1.0	Make		Siechem Technologies Pvt Ltd
2.0	Cable Size	Sq.mm	4
3.0	No.of Cores	Nos.	1
4.0	Specification / Construction		As per EN 50618
5.0	Rated Voltage	kV	1/1 kV AC (1.5/1.5 kV DC)
6.0	Max. Permitted DC Voltage	kV	1.8 kV DC
7.0	Temperature Range		
	i) Ambient Temperature	°C	-40°C to +90°C
	ii) Max Temperature at Conductor	°C	120°C
8.0	Conductor		
8.1	Material		Annealed Tinned Flexible Copper Conductor
8.2	Cross sectional Area	Sq.mm	4
8.3	Type of Conductor		Class - 5
8.4	Wire Dia Max.	mm	0.31
8.5	Max. DC Conductor Resistance at 20°C	ohm/km	5.09
9.0	Insulation		
9.1	Material		EBXL - XLPO - 120°C
9.2	Nominal Thickness of Insulation	mm	0.7
9.3	Min Insulation Resistance i) at 20°C ii) at 90°C	Mohm.km	580 0.58
9.4	Insulation Colour		Red / Black
10.0	Outer Sheath		
10.1	Material		EBXL - XLPO - 120°C
10.2	Sheath Colour		Black with Red Stripe (+ve)/ Black (-ve)
10.3	Nom. Thickness of Outer Sheath	mm	0.8
10.4	Nominal Overall Diameter of Cable	mm	5.8 ± 0.6
10.5	Approx Cable Weight	kg/km	58
10.6	Marking on the Cable		Siechem H1Z2Z2-K 1C x 4 Sq.mm 1.8kV DC EBXL XLPO 120°C EN 50618 SOLAR CABLE

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Part Number		A47619XXYY	
11.0	ELECTRICAL DATA		
11.1	Current Rating at ambient temperature upto 60°C i) Single Cable Free in air ii) Single Cable on surface iii) Two loaded cables touching on surface	A	55 52 44
11.2	Max. Continuous Working Temp	°C	120
11.3	Max. Conductor Temp at Termination of Short Circuit for 5 sec	°C	250
12.0	Packing length	mtr	1000 ± 10%

Note:

- i) 50 % Quantity will be with Red Insulation, Black Outersheath with Red Stripe.
- ii) Balance 50 % Quantity Black Insulation with Black Outersheath.
- iii) Due to manufacturing constraint/frequent power failure upto 25% of the quantity may please be accepted in non standard lengths. However each length not less than 100 mtrs
- iv) Dimensions mentioned as 'nominal' is for guideline purpose only. The actual dimensions are subjected to manufacturing tolerance. Hence the actual dimensions, when cable supplied may marginally vary

Insulation Colour XX* - Red - 01, Black-04**Sheath Colour YY* - Black with red stripe - 39, Black-04**