

**Guaranteed Technical Particulars**

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Checked by : S.N

**Cable Description** : 1Cx4 Sq.mm Annealed Tinned Flexible Copper Conductor, EBXL XLPO 120°C Insulated & Sheathed 1.8 kV DC Solar Cable

Part Number			64919XXYY
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	Construction		As per TUV spec. 2Pfg.1169 / 08.2007
5.0	Voltage Rating	kV	1.8 kV DC
6.0	<b>CONDUCTOR</b>		
6.1	Material		Annealed Tinned Flexible Copper Conductor
6.2	Cross sectional Area	Sq.mm	4
6.3	Class of Conductor		Class 5
6.4	No.of Strands (Nom)	Nos.	56
6.5	Wire Dia Max.	mm	0.31
6.6	Max. DC Conductor Resistance at 20°C	ohm/km	5.09
7.0	<b>INSULATION</b>		
7.1	Material		EBXL-XLPO 120°C
7.2	Nominal Thickness of Insulation	mm	0.6
7.3	Insulation Resistance (Min)	ohm-cm	$1 \times 10^{14}$ at 20°C
7.4	Insulation Colour		Red / Black
8.0	<b>OUTER SHEATH</b>		
8.1	Material		EBXL-XLPO 120°C
8.2	Sheath Colour		i) 50% Quantity - Black with Red Stripe ii) 50 % Quantity -Black
8.3	Nom. Thickness of Outer sheath	mm	0.6
8.4	Overall Diameter of cable, Nom	mm	$5.5 \pm 0.5$
8.5	Approx Cable Weight	kg/km	55
8.6	Marking on the Cable (Printing)		Siechem PV1 - F 1Cx4 Sq.mm 1.8kV DC EBXL XLPO 120°C TUV 2Pfg.1169 / 08.2007 SOLAR CABLE(at every 1 metre instead of 550 mm)
9.0	<b>ELECTRICAL DATA</b>		
9.1	Current Rating two cables adjacent on surfaces	A	44
9.2	Max. Continuous Working Temp	°C	120
9.3	Max. Conductor Temp at Termination of Short Circuit	°C	200 for 5 Sec
10.0	Packing length	mtr	$1000 \pm 10\%$

**Note:**

- i) 50 % Quantity will be with Red Insulation, Black Outersheath with Red Stripe.
- ii) Balance 50 % Quantity Black Insulation with Black Outersheath.
- iii) Included printing at every 1 meter in cable marking instead of 550 mm specified in the specification.
- iv) 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
- v) 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 - 04, Black with Red stripe - 39**

