

Synergy Telecom P Ltd.

4SQ MM SOLAR CABLE



Sr. No.	Test	Description	Unit	Required Value	Observed Value
1	Conductor – Class-5 (As per IS-8130 : 1984)	Material	Flexible Annealed Tinned Copper Conductor		Flexible Annealed Tinned Copper Conductor
		Conductor Size	mm (max)	0.31	0.300
		Area	Sqmm (nom)	4	4
		Conductor Elongation	% (min)	13.5	19.6
2	Insulation	Material	---	PVC Type – A	PVC Type – A
		Thickness	mm (nom)	0.80	0.86-0.92
		Dia over Insulation	mm (nom)	4.15	4.18-4.22
		Core color	---	Red	Red
		Tensile Test (Sheath)	N/sqmm (min)	12.5	15.85
		Elongation (Sheath)	% (min)	150	230
3	Outer sheath (As per IS – 5831:1984)	Material	PVC ST-1 (UV Resistant)		PVC ST-1 (UV Resistant)
		Thickness	mm (nom)	1.00	1.06-1.12
		Over all dia meter	mm(Max)	7.00	6.52
		Color	---	BLACK (Red Strip)	BLACK (Red Strip)
		Tensile Test (Sheath)	N/sqmm (min)	12.5	15.80
		Elongation (Sheath)	% (min)	150	250
4	Electrical parameter	Conductor Resistance at 20°C	Ω / Km (max)	5.09	4.63
		Insulation Resistance Constant at 27°C	MΩ-Km (min)	36.7	522
		Volume Resistivity at 27°C	Ω-Cm (min)	1 x 10 ¹³	2.20 x 10 ¹⁴
		Rated Voltage of Cable	Volts	up to 1100	up to 1100
		High Voltage Test	kv/rms (for 5 minute)	3	Withstood
		Hot deformation Test (at 80°C for 4 hrs.)		50 % (max)	15
5	Flammability Test (As per IS-1554 – 1:1988)	The Uncharred portion from the lower edge of the top clamp		50 mm (min)	392
		Period of burning after removal of flame		60 Sec (max)	10
6	Printing	RF Connector House 4 Sq mm UV Protected 001-200 BC -12/2014,BC/CR/213/14-15 --- Mtrs.			

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