

**GUARANTEED TECHNICAL PARTICULARS OF AERIAL BUNCHED CABLE**  
**3x120+1x95+1x16**

1.		Manufacture name & address	Required value	Offered value
2.		Rated voltage	1100 V	
3.		Phase conductor details		
	i)	No of phase conductors	3	
	ii)	Nominal sectional area of each conductor in sq.mm	120	
	iii)	Minimum Tensile strength of each strand in N/sq.mm	90	
	iv)	Diameter of compacted conductor in mm (Approx)	13.2	
	v)	Max. D.C. resistance at 20°C (Ohm/Km)	0.253	
	vi)	Insulation thickness (mm) nominal	1.50	
		Insulation thickness (mm) minimum	1.25	
	vii)	Standard specification to which this material shall conform	IS-8130/1984 & IS:14255/1995	
4.		Street light conductor Detail		
	i)	Nominal sectional; area of conductor in sq.mm	16	
	ii)	Minimum Tensile strength of each strand in N/sq.mm	90	
	iii)	Diameter of compacted conductor in mm (approx)	4.4	
	iv)	Max. D.C. resistance at 20°C ( Ω /Km)	1.91	
	v)	Insulation Thickness (mm) nominal	1.20	
		Insulation thickness (mm) minimum	0.98	
	vi)	Standard specification to which this material shall conform	IS:8130/1984& IS:14255/1995	
5.		<b>Total Minimum Guaranteed weight of aluminium in Phase as well as Street light conductors (kg/km)</b>	<b>1016.3</b>	
6.		Messenger details:		
	i)	Nominal sectional area of the conductor in sq.mm	95	
	ii)	No. of strands	7	
	iii)	approximate overall dia of complete conductor (mm)	11.7	
	iv)	<b>Minimum Guaranteed weight of messenger (Al. alloy) Kg/Km</b>	<b>256.7</b>	
	v)	Minimum breaking load of the conductor in Kn	26.5	
	vi)	Standard specification to which this material shall conform	IS:398(Part-IV)/1994 & IS:14255/1995	
	vii)	Max.D.C. resistance at 20°C (Ω /Km)	0.357	
7.		Insulation of phase & street light conductor:		
	i)	Material	XLPE	
	ii)	Standard specification to which this material shall coform	7098(Part-I/1988)	