

GUARANTEED TECHNICAL PARTICULARS OF AERIAL BUNCHED CABLE
(3x95+1x70+1x16) mm²

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	95	
	iii) Minimum Tensile strength of each strand in N/sq.mm	90	
	iv) Diameter of compacted conductor in mm (Approx)	12.00	
	v) Max. D.C. resistance at 20°C (Ohm/Km)	0.320	
	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.	Total Minimum Guaranteed weight of aluminium in Phase as well as Street light conductors (kg/km)	813.6	
6.	Messenger details:		
	i) Nominal sectional area of the conductor in sq.mm	70	
	ii) No. of strands	7	
	iii) approximate overall dia of complete conductor (mm)	10.1	
	iv) Minimum Guaranteed weight of messenger (Al. alloy) Kg/Km	189.2	
	v) Minimum breaking load of the conductor in Km	19.7	
	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)	0.492	
7.	Insulation of phase & street light conductor:		
	i) Material	XLPE	
	ii) Standard specification to which this material shall conform	7098(Part-I/1988)	