

**AMENDED GUARANTEED TECHNICAL PARTICULARS OF LT AERIAL BUNCHED CABLE WITH
PROVISION OF BARE MESSENGER / NEUTRAL CONDUCTOR SIZE (3X50+1X35+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	50	
	iii)	Minimum Tensile strength of each strand in N/sq.mm	90	
	iv)	Diameter of compacted conductor in mm (Approx)	7.9	
	v)	Max. D.C. resistance at 20°c (Ohm/Km)	0.641	
	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)	448.7	
6		Messenger details:		
	i)	Nominal sectional area of the conductor in sq.mm	35	
	ii)	No. of strands	7	
	iii)	approximate overall dia of complete conductor (mm)	6.8	
	iv)	Material	XLPE Compound	
	v)	Insulation Thickness (mm)		
		(a) Nominal	1.2	
		(b) Minimum	0.98	
	vi)	Minimum Guaranteed weight of messenger (Al. alloy) Kg/Km	94.6	
	vii)	Minimum breaking load of the conductor in Kn	9.8	
	viii)	Standard specification to which this material shall conform	IS:398(Part-IV)/1994 &IS:14255/1995	
	ix)	Max.D.C. resistance at 20°c (Ω /Km)	0.986	
7		Insulation of phase messenger & street light conductor:		
	i)	Material	XLPE Compound	
	ii)	Standard specification to which this material shall conform	7098(Part-I/1988)	