

**AMENDED GUARANTEED TECHNICAL PARTICULARS OF LT AERIAL BUNCHED CABLE WITH  
PROVISION OF BARE MESSENGER / NEUTRAL CONDUCTOR SIZE (3X50+1X35+1X16) MM<sup>2</sup>**

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		<b>Total Minimum Guaranteed weight of aluminium in Phase as well as Street light conductors (kg/km)</b>	<b>448.7</b>	
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)	<b>Minimum Guaranteed weight of messenger (Al. alloy) Kg/Km</b>	<b>94.6</b>	
	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)	