

LT AERIAL BUNCHED CABELS AS PER IS: 14255-1995

Phase Conductor Aluminum			Street Lighting Conductor Aluminium			Messenger Conductor Aluminium Alloy		
Nom. Area	Max. D.C Conductor Resistance At 20 Deg. C	Nom. ThicknessOf Insulation XLPE/PF	Nom. Area	Max. D.C Conductor Resistance At 20 Deg. C	Nom. Thickness Of Insulation XLPE/PE	Nom. Area	Max. D.C Conductor Resistance At 20 Deg. C	Min. Breaking Load
Sqmm	Ohm/Km	mm	Sqmm	Ohm/Km	mm	Sqmm	Ohm/Km	KN
16	1.91	1.2	16	1.91	1.2	25	1.38	7
25	1.2	1.2	16	1.91	1.2	25	1.38	7
35	0.868	1.2	16	1.91	1.2	25	1.38	7
50	0.641	1.5	16	1.91	1.2	35	0.986	9.8
70	0.443	1.5	16	1.91	1.2	50	0.689	14
95	0.32	1.5	16	1.91	1.2	70	0.492	19.7

COMPOSITION AND DESIGNATION OF LT AERIAL BUNCHED CABLES AS PER RED SPECIFICATION NO. 32

Designation	Complete Bunched Cables	
	Approx. Overall Dia.	Approx. Total Mass
	mm	Kg/Km
3X16+25	19	250
3X16+16+25	19	310
3X25+25	22	330
3X25+16+25	22	390
3X35+25	24	430
3X35+16+25	24	490
3X50+35	32	580
3X50+16+35	32	640

LT AERIAL BUNDLED CONDUCTOR (ABC) POLYMERIC INSULATED AS PER BS: 7870 (PART-5) 1999

Nominal Cross Sectional Area of Conductor	Max. D.C Resistance At 20 Deg. C Of XLPE	Mix Average ThicknessConductor	Ultimate TensileStrength of Insulation
25	1.200	1.3	4.1
35	0.868	1.3	5.6

50	0.641	1.5	7.6
70	0.443	1.5	11.0
95	0.320	1.7	15.3
120	0.253	1.7	19.4

CHARACTERISTICS OF CONDUCTORS AND CORES FOR LT AERIAL BUNCHED CABLES
ASPER NFC 33-2099

Designation		Conductor					Average Thickness of Insulating Sheath Specified Min.	Core	
Type	Nominal Sectional Area	No. of Strands	Max. Linear Resistance At 20 Deg. C	Min. Conductor Dia. Min.	Breaking Strength Max.	Breaking Strength Max.		Max.	
	Sqmm		Ohm/Km	mm	daN	daN	mm	mm	mm
PHASE OR NEUTRAL NON RETURN	16	7	1.91	4.7	190	290	1.2	7	7.9
	25	7	12	6	300	450	14	8.7	9.6
	35	7	0.641	8.2	600	900	1.6	11.3	12.3
	50	7	0.641	8.2	600	900	1.6	11.3	12.3
	70	12	0.443	9.8	840	1260	1.8	13.3	14.3
NEUTRAL RETURN	54.6	7	0.63	9.2	1660	-	1.6	12.3	13

COMPOSITION AND DESIGNATION OF HT AERIAL BUNCHED CABLE AS PER REC SPECIFICATION NO. 64

Designation	Complete Bunched Cables	
	Approx. Overall Dia. Mm	Approx. Total Mass Kg/Km
6.35/11 KV 3X35+70	53	1450
6.35/11 KV 3X70+70	59	1900