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Schedule Of Technical Particulars



3x70 + 1x54.6 + 16mm ² Aerial Bundled Conductors

General

1	Manfact	Manfacturers name & address		\rightarrow	Allied Cables Ltd	
2	Standar	Standards Applicable		\rightarrow	NFC 33-209, IEC 502, IEC 1089, IEC 228	
3	Number of Strands in					
	i.	Phase Conductors		\rightarrow	12	
	ii.	Neutral Messenger		\rightarrow	7	
	iii.	Street Lighting Conductor		\rightarrow	7	
4	Nomina	l Cross Sectional Area of				
	i.	Phase Conductors		\rightarrow	70.00	mm
	ii.	Neutral Messenger		\rightarrow	54.60	mm
	iii.	Street Lighting Conductor		\rightarrow	16.00	mm
5	Max Lin	Max Linear Resistance of Conductor at 20°C				
	i.	Phase Conductors		\rightarrow	0.443	Ω/km
	ii.	Neutral Messenger		\rightarrow	0.63	Ω/km
	iii.	Street Lighting Conductor		\rightarrow	1.91	Ω/km
6	Minimu	m Breaking Strength				
	i.	Phase Conductors		→	840	daN
	ii.	Neutral Messenger		\rightarrow	1660	daN
	iii.	Street Lighting Conductor		→	190	daN
7	Nominal Diameter of Strands					
	i.	Phase Conductors		\rightarrow	2.74	mm
	ii.	Neutral Messenger		\rightarrow	3.15	mm
	iii.	Street Lighting Conductor		\rightarrow	1.70	mm
8	Diamete	er of Bare Conductors				
	i.	Phase Conductors	max	\rightarrow	10.2	mm
			min	→	9.70	mm
	ii.	Neutral Messenger	max	→	9.60	mm
			min	\rightarrow	9.20	mm
	iii.	Street Lighting Conductor	max	\rightarrow	5.10	mm
9	Thickness of Insulating Sheath					
	i.	Phase Conductors	max	→	1.8	mm
			min	→	1.52	mm at 1 point
	ii.	Neutral Messenger	max	→	1.6	mm
			min	→	1.34	mm at 1 point
	iii.	Street Lighting Conductor	max	→	1.2	mm
			min	\rightarrow	0.98	mm at 1 point
10	Insulated Cable Outside Diameter					
	i.	Phase Conductors	max	\rightarrow	14.2	mm
			min	→	13.3	mm
	ii.	Neutral Messenger	max	→	13.0	mm
			min	→	12.3	mm
	iii.	Street Lighting Conductor	max	\rightarrow	7.8	mm
			min	\rightarrow	7.0	mm

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Item code T - 24sub

3x70 + 1x54.6 + 16mm ² Aerial Bundled Conductors

11	Co-Efficient of	Linear	Expansion
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i. AL Conductors \rightarrow 23 x 10⁻⁶ °C ii. AL Alloy Conductors \rightarrow 23 x 10⁻⁶ °C

12 Modules of Elasticity

i. AL Conductors \rightarrow 56000 Mpa ii. AL Alloy Conductors \rightarrow 62000 Mpa

13 Chemical Composition

i. Aluminium Conductor → AL = 99.50% min

SI = 0.10% max, FE = 0.40% max CU = 0.05% max, MN = 0.01% max CR = 0.01% max, B = 0.05% max GE = 0.03% max, ZN = 0.05% max

V + Ti = 0.02% max

Other elements each = 0.03% max Other elements total = 0.10% max

ii. Aluminium Alloy Conductor

→ CU = 0.10% max, FE = 0.50% max SI = 0.5-0.9%, MN = 0.03% max MG = 0.6-.9%, ZN = 0.10% max CR = 0.03% max, B = 0.06% max Other elements each = 0.03% max Other elements total 0.10% max

AL = Remainder

14 Weight in metric tons of high grade Aluminium required for the manufacture of ONE Kilometer of Aerial Bundled Conductors

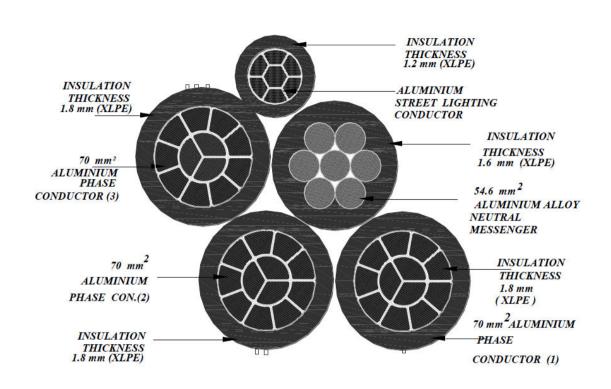
Item II (3x70+54.6+16mm) → 0.599 MT

15 Weight in metric tons of Aluminium Alloy required for the manufacture of ONE kilometer of Aerial Bundled Conductors

Item II (3x70+54.6+16mm) → 0.151 MT

R.A Arunajith Perera Electrical Engineer Techinical Services Department ACL

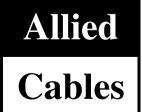
Date of issue: 15.06.2012



R.A Arunajith Perera Electrical Engineer Technical Services Department ACL

Allied Cables Ltd

Allied Works, Liverpool Road, Warrington, Cheshire WA5 1AP



3 x 70mm² AL/XLPE+N54.6mm² AL Alloy/XLPE+16mm² AL/XLPE Aerial Bundled Cable

Item Code: T - 24sub

Checked: Eng EX Approved: EE(TSD)

Date: 04-Feb-18 **Scale:** not to scale