

### *All Aluminium Alloy Conductor XLPE - AAC ( QUINCE ) - 7/3.12 mm*

#### 1 General

i)	Manufacturers name & address	→	Allied Cables Ltd
ii)	Conductor Type	→	AAC - QUINCE
iii)	Standards Applicable	→	ASTM B231, B230

#### 2 Aluminium Wire (1350- H19)

i)	Diameter	→	3.12	mm	
ii)	Density	→	2700	kg/m <sup>3</sup>	
iii)	Resistivity at 20°C	Max	→	0.028265	μΩ .m
iv)	Breaking Strength	Min	→	1.338	kN
v)	Coefficient of liner expansion	→	23 x 10 <sup>-6</sup>	/°C	

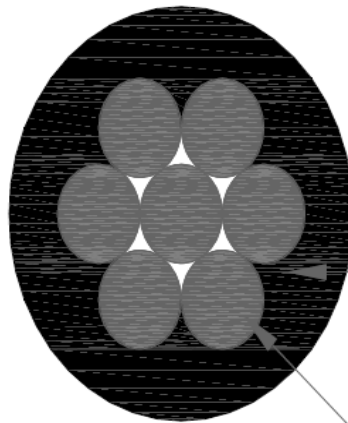
#### 3 AAC Conductor

i)	Aluminium Wires	→	7		
ii)	Overall diameter	→	9.36	mm <sup>2</sup>	
iii)	Nominal Aluminium Area	→	53.50	mm <sup>2</sup>	
iv)	Lay ratio for core (6 wire layer)	Max	→	16	
		Min	→	10	
v)	Lay Direction	→	Right Hand		
vi)	Breaking Strength	→	8.84	kN	
vii)	Calculated DC resistance at 20°C	Max	→	0.5381	Ω/km
viii)	Coefficient of linear expansion	→	23 x 10 <sup>-6</sup>	/°C	
ix)	Approximate Mass	→	146.3	kg/km	

#### 4 AAC/XLPE Conductor

i)	Type of Covering	→	XLPE		
ii)	Colour of Covering	→	Black		
iii)	Covering Thickness	Nom	→	1.5	
		Min	→	1.25	
iv)	Overall Diameter	Approx	→	12.4	mm <sup>2</sup>
v)	Printing Details	→	As per customers Specification		

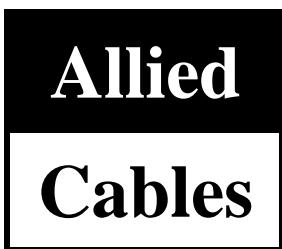
**R.A Arunajith Perera**  
**Electrical Engineer**  
**Technical Services Department**  
**ACL**



1.50 mm XLPE  
Insulation

7/3.12 mm  
AL conductor

R.A Arunajith Perera  
Electrical Engineer  
Technical Services Department  
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**Allied Cables Ltd**

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**7/3.12 AL/XLPE - QUINCE**

**Item Code: T - 2277**

Checked: Eng.Ex

Approved: EE (TSD)

Date: 08.03.2017

Scale: not to scale