

All Aluminium Alloy Conductor - AAC OXLIP -7/4.42mm²

1 General

i) Manufacturers name & address	→	Allied Cables Ltd
ii) Conductor Type	→	AAC/1350 - H19
iii) Standards Applicable	→	ASTM B 231, ASTM B 230

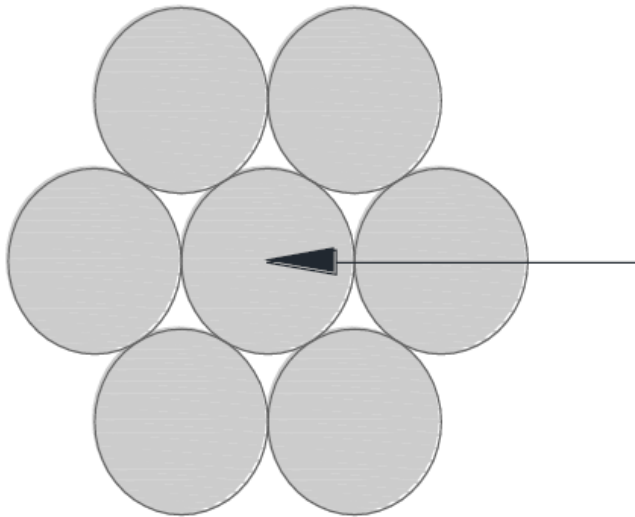
2 Aluminium Alloy Wire (1350 - H19)

i) Diameter	→	4.42	mm
ii) Density	→	2700	kg/m ³
iii) Resistivity at 20°C	→	0.028264	μΩ .m
iv) Modulus of Elasticity	→	68	Gpa
v) Coefficient of liner expansion	→	23 x 10	/°C

3 AAC Conductor

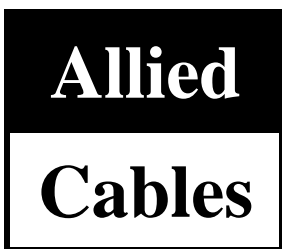
i) Aluminium Wires	→	7/4.42	mm ²
ii) Overall diameter	→	13.26	mm ²
iii) Nominal Area	→	107	mm ²
iv) Calculated Area	→	107.4	mm ²
v) Lay ratio for core (6 wire layer)	Max	→	16
	Min	→	10
vi) Lay direction of external layer	→	Right Hand	
vii) Calculated Breaking Load	Min	→	17 kN
viii) DC resistance at 20°C	Max	→	0.282 Ω/km
x) Final Calculated Modules of elasticity	→	59	Gpa
xi) Coefficient of linear expansion	→	23 x 10	/°C
xii) Approximate Mass per KM	→	294	kg/km

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**7/4.42 mm
Aluminium
Conductor**

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7/4.42mm² AAC - OXLIP

Item Code: G - 458

Checked: Eng.EX.

Approved: EE (TSD)

Date:

08-Nov-16

Scale:

not to scale