

All Aluminium Alloy Conductor - AAC (POPPY) - 7/3.12 mm**1 General**

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

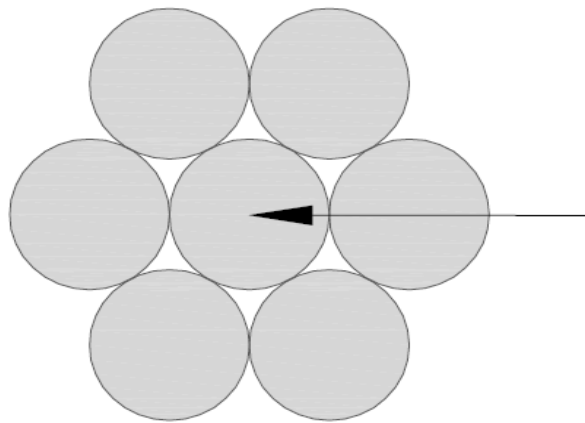
2 Aluminium Wire (1350- H19)

- | | | | |
|-----------------------------------|-----|-----------------------|-------------------|
| i) Diameter | → | 3.12 | mm |
| ii) Density | → | 2700 | kg/m ³ |
| 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 ⁻⁶ | /°C |

3 AAC Conductor

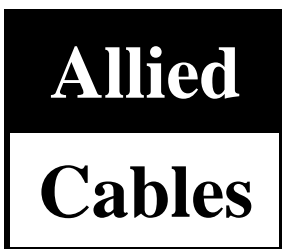
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|---------------------------------------|-----|-----------------------|-----------------|
| i) Aluminium Wires | → | 7 | |
| ii) Overall diameter | → | 9.36 | mm ² |
| iii) Nominal Aluminium Area | → | 53.50 | mm ² |
| iv) Lay ratio for core (6 wire 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 ⁻⁶ | /°C |
| ix) Approximate Mass | → | 146.3 | kg/km |

R.A Arunajith Perera
Electrical Engineer
Technical Services Department
ACL



**7/3.12 mm
Aluminium
Conductor**

R.A Arunajith Perera
Electrical Engineer
Technical Services Department
ACL



Allied Cables Ltd

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

7/3.12 AAC - POPPY

Item Code: G - 395

Checked: Eng.Ex

Approved: EE (TSD)

Date: 08.03.2017

Scale: not to scale