

**All Aluminium Alloy Conductor - AAAC (Willow) - 7/4.04 mm****1 General**

- |                                 |   |                   |
|---------------------------------|---|-------------------|
| i) Manufacturers name & address | → | Allied Cables Ltd |
| ii) Conductor Type              | → | AAAC - Willow     |
| iii) Standards Applicable       | → | BSEN 50182 : 2001 |

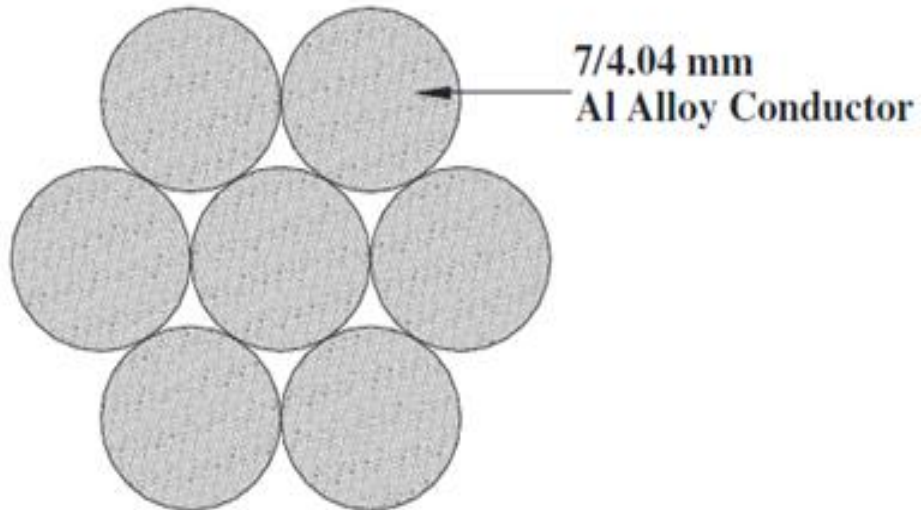
**2 Aluminium Alloy Wire (6201A)**

- |                                      |     |                       |                   |
|--------------------------------------|-----|-----------------------|-------------------|
| i) Diameter                          | →   | 4.04                  | mm                |
| ii) Density                          | →   | 2700                  | kg/m <sup>3</sup> |
| iii) Resistivity at 20°C             | Max | →                     | 0.0328 μΩ.m       |
| iiii) Coefficient of liner expansion | →   | 23 x 10 <sup>-6</sup> | /°C               |

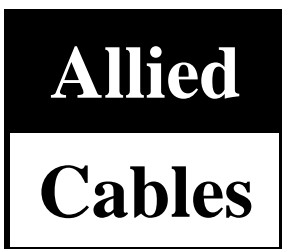
**3 AAAC Conductor**

- |   |     |                       |                 |
|---|-----|-----------------------|-----------------|
| i) Aluminium Wires                          | →   | 7                     |                 |
| ii) Overall diameter                        | →   | 12.12                 | mm <sup>2</sup> |
| iii) Nominal Aluminium Area                 | →   | 89.73                 | mm <sup>2</sup> |
| iv) Lay ratio for core (6 wire layer)       | Max | →                     | 14              |
|   | Min | →                     | 10              |
| v) Calculated Breaking Load                 | →   | 26.47                 | kN              |
| vi) DC resistance at 20°C                   | Max | →                     | 0.3665 Ω/km     |
| vii) Final Calculated Modules of elasticity | →   | 59                    | Gpa             |
| viii) Coefficient of linear expansion       | →   | 23 x 10 <sup>-6</sup> | /°C             |
| ix) Approximate Mass                        | →   | 245                   | kg/km           |

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<b>7/4.04mm - AAAC Willow</b>			
<b>Item Code: G - 239</b>			
Checked: Eng.Ex		Approved: EE (TSD)	
Date:	13.02.18	Scale:	not to scale