

ACSR (HORSE) 12 / 7 / 2.79mm

1 General

- | | | |
|---------------------------------|---|--|
| i) Manufacturers name & address | → | Allied Cables Ltd |
| ii) Conductor Type | → | ACSR (HORSE) |
| iii) Standards Applicable | → | BS 215 PART 2, BS EN 50189: 2000, BS 2627:1970 |

2 Aluminium Wire

- | | | | |
|-------------------------------------|-----|-----------------------|------------------------|
| i) Diameter | → | 2.79 | mm |
| ii) Resistivity at 20°C | Max | → | 2.8264 $\mu\Omega$.cm |
| iii) Coefficient of liner expansion | → | 23 x 10 ⁻⁶ | /°C |
| iv) Tensile Strength | Min | → | 169 N/mm ² |

3 Galvanised Steel Wire

- | | | | |
|-----------------------------|-----|------|------------------------|
| i) Type of Galvanised Steel | → | ST4A | |
| ii) Diameter | → | 2.79 | mm |
| iii) Tensile Strength | Min | → | 1670 N/mm ² |
| iv) Stress at 1% Elongation | Min | → | 1275 N/mm ² |
| v) Elongation on 250mm | Min | → | 4.0% |

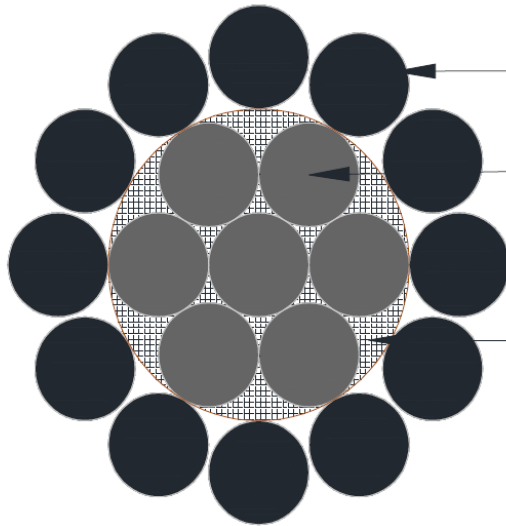
4 ACSR Conductor

- | | | | |
|--|--------|-------------------------|---------------------|
| i) Aluminium Wires | → | 12 | |
| ii) Galvanised Steel Wires | → | 7 | |
| iii) Overall diameter | → | 13.95 | mm |
| iv) Lay ratio for Steel core | Max | → | 28 |
| | Min | → | 13 |
| v) Lay ratio for Aluminium Layer | Max | → | 14 |
| | Min | → | 10 |
| vi) Calculated Breaking Load | Min | → | 61.20 kN |
| vii) DC resistance at 20°C | Max | → | 0.3936 Ω /km |
| viii) Coefficient of linear expansion | → | 15.3 x 10 ⁻⁶ | /°C |
| ix) Modules of Elasticity | → | 105000 | N/mm ² |
| x) Mass per Unit Length
(excluding grease weight) | Approx | → | 538 kg/km |

5 Grease

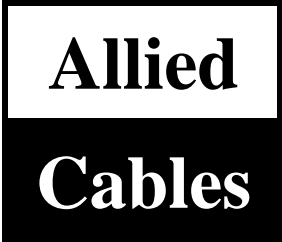
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|-------------------------|---|-----------------------|
| i) Name/Type of Grease | → | Marfak Multipurpose 2 |
| ii) Melting Temperature | → | Not Less Than 120°C |

R.A Arunajith Perera
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Technical Services Department
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12 / 2.79 mm
Aluminium Conductor
 7 / 2.79 mm
**Galvanized Steel
 Conductor**
Grease

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 ACL



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12 / 7 / 2.79mm ACSR (Horse)

Item Code: G-47

Checked:

Approved:

Date:

11-Feb-12

Scale:

not to scale