

# Cu Aerial - Hard Drawn (Bare)

**Cu Bare Aerial - Hard Drawn 25mm<sup>2</sup>**

## Contact

Sales and Customer Solutions  
sales.nz@nexans.com

**Nexans Ref.:** ACUT17AA001AAAA

**Country Ref.:** 2258

Copper conductor. Made to AS 1746.

## DESCRIPTION

The HDCu aerial has lower elongation and increased tensile rating compared to annealed copper conductors.



## STANDARDS

**National AS 1746**

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## CHARACTERISTICS

### Construction characteristics

|                       |          |
|-----------------------|----------|
| Conductor material    | Copper   |
| Conductor flexibility | Stranded |
| Conductor shape       | Circular |
| Number of conductors  | 1        |

### Dimensional characteristics

|                          |                    |
|--------------------------|--------------------|
| Conductor cross-section  | 25 mm <sup>2</sup> |
| Stranding (No./mm)       | 7/2.14             |
| Nominal overall diameter | 6.4 mm             |
| Approximate weight       | 0.23 kg/m          |

### Mechanical characteristics

|                       |         |
|-----------------------|---------|
| Minimum breaking load | 10.1 kN |
|-----------------------|---------|

## NOTE

1. Coefficient of linear expansion  $17.0 \times 10^{-6}/^{\circ}\text{C}$ .
2. Modulus of elasticity:
  - a. 119 GPa for seven (7) wire conductors.
  - b. 118 GPa nineteen (19) wire conductors.
  - b. 117 GPa for thirtyseven (37) wire conductors.

Current ratings are based on ambient temperature of 30°C, a maximum conductor temperature of 75°C, rural weathered, summer noon and intensity of solar radiation 1000 W/m<sup>2</sup>.