

Cu Aerial - Hard Drawn (Bare)

Cu Bare Aerial - Hard Drawn 35mm²

Contact

Sales and Customer Solutions
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Nexans Ref.: ACUT18AA001AAAA

Country Ref.: 9778

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	35 mm ²
Stranding (No./mm)	19/1.53
Nominal overall diameter	7.7 mm
Approximate weight	0.31 kg/m

Mechanical characteristics

Minimum breaking load	14.1 kN
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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/m².