

Cu Aerial - Hard Drawn (Covered)

Cu Covered Aerial - Hard Drawn 40mm²

Contact

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Nexans Ref.: BAAT70AA001AABK

Country Ref.: 4647

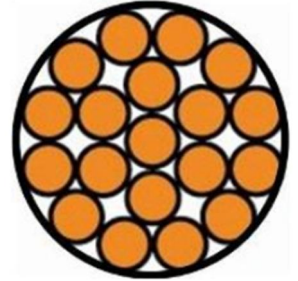
Hard Drawn Copper conductor, PVC Cover. Made to AS/NZS 5000.1.

DESCRIPTION

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

The PVC covering contains a high level of carbon black for UV resistance. The covering is not considered as an electrical insulation.

This type of aerial cable is designed for harsh environments such as coastal areas; the conductor is protected by the PVC covering to reduce the risk of aluminium corrosion.



STANDARDS

National AS/NZS 5000.1

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CHARACTERISTICS

Construction characteristics

Conductor material	Copper
Insulation	PVC

Dimensional characteristics

Conductor cross-section	40 mm ²
Stranding (No./mm)	19/1.63
Nominal insulation thickness	1.4 mm
Nominal overall diameter	11.2 mm
Approximate weight	0.43 kg/m
Conductor diameter	8.15 mm

Mechanical characteristics

Minimum breaking load	16 kN
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Usage characteristics

Maximum operating temperature	75 °C
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NOTE

1. Coefficient of linear expansion $17.0 \times 10^{-6}/^{\circ}\text{C}$.
2. Modulus of elasticity:
112 GPa for seven (7) wire conductors.
110 GPa for nineteen (19) wire conductors.
108 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.