Cu Aerial - Hard Drawn (Covered)

Cu Covered Aerial - Hard Drawn 25mm2

Contact

General Sales inquiries Phone: 0508 NEXANS sales.nz@nexans.com

Nexans ref.: <u>BAAT16AA001AABK</u> Country ref.: 4277

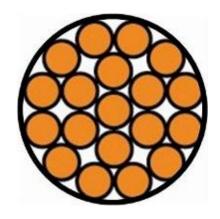
Hard Drawn Copper conductor, PVC Cover. Made to AS/NZS 5000.1.

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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans. Generated 17/11/20 www.nexans.co.nz Page 1 / 2



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CHARACTERISTICS

	Construction characteristics					
	Conductor material	Copper				
	Insulation	PVC				
	Dimensional characteristics					
	Conductor cross-section	25 mm²				
	Stranding (No./mm)	7/2.14				
	Nominal insulation thickness	1.2 mm				
	Nominal overall diameter	9.3 mm				
	Approximate weight	0.3 kg/m				
	Conductor diameter	6.75 mm				
	Mechanical characteristics					
	Minimum breaking load	10.4 kN				
Usage characteristics						
	Maximum operating temperature	75 °C				

Maximum operating temperature

75 °C

ELECTRICAL PERFORMANCE DATA

Cross Sectional Area (mm²)	Calculated DC Resistance at 20°C (0hm/km)	Reactance at 50Hz with 300mm Spacing (0hm/km)	Current Rating Still Air (Amps)	Current Rating 1 m/s (Amps)
6	3.17	0.365	45	81
10	1.88	0.349	63	110
16	1.18	0.334	84	147
25	0.749	0.314	115	194
35	0.540	0.306	141	235
50	0.399	0.295	172	281
70	0.276	0.285	218	353
95	0.198	0.273	266	421

NOTE

- 1. Coefficient of linear expansion 17.0×10^{-6} /°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.

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