Al Aerial Bundled cables (ABC)

AL AERIAL ABC: LV 2X 50^

Contact
Sales and Customer Solutions
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Nexans Ref.: XDAB19AA002AALL
Country Ref.: 2259

Aluminium conductor, XLPE insulation. Made to ASNZS 3560.1.

DESCRIPTION

Application

Aerial Bundled Cable is designed for residential and rural areas for reducing the bushfire hazards. The XLPE covering contains a high level of carbon black for UV resistance. It is designed for where reliability, safety and low installation cost are required, but it is only for short spans due to increased weight.

STANDARDS

National AS/NZS 3560.1

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CHARACTERISTICS

Construction characteristics	
Pilot wires	None
Conductor material	Aluminum
Insulation	XLPE
Sheath colour	-
Dimensional characteristics	
Number of cores	2
Conductor cross-section	50 mm²
Conductor diameter	8.05 mm
Insulation sheath thickness	1.5 mm
Nominal overall diameter	23.8 mm
Approximate weight	0.35 kg/m
Electrical characteristics	
Rated Voltage Uo/U (Um)	0.6/ 1 (1.2) kV
Mechanical characteristics	
Minimum breaking load	14 kN
Usage characteristics	
Maximum operating temperature	80 °C

NOTE

1. Coefficient of linear expansion 23.0 x 10^{-6}/°C.
   a. Modulus of elasticity 59 GPa up to and including 50mm² and 56 GPa for conductors above 50mm².

Current ratings are based on an ambient remperature of 30ºC, a maximum conductor temperature of 80ºC, wind speed of 1 m/s and intensity of solar radiation 1000 w/m².