

Al Aerial Bundled cables (ABC)

AL AERIAL ABC: LV 4X 50^

Contact

Sales and Customer Solutions
sales.nz@nexans.com

Nexans Ref.: XDAB19AA004AALP

Country Ref.: 5517

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

Al Aerial Bundled cables (ABC)

AL AERIAL ABC: LV 4X 50^

Contact

Sales and Customer Solutions
sales.nz@nexans.com

CHARACTERISTICS

Construction characteristics

Pilot wires	None
Conductor material	Aluminum
Insulation	XLPE
Sheath colour	-

Dimensional characteristics

Number of cores	4
Conductor cross-section	50 mm ²
Conductor diameter	8.05 mm
Insulation sheath thickness	1.5 mm
Nominal overall diameter	28.7 mm
Approximate weight	0.7 kg/m

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	0.6/ 1 (1.2) kV
---	-----------------

Mechanical characteristics

Minimum breaking load	28 kN
-----------------------	-------

Usage characteristics

Maximum operating temperature	80 °C
-------------------------------	-------

NOTE

1. Coefficient of linear expansion $23.0 \times 10^{-6}/^{\circ}\text{C}$.
 - 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 temperature of 30°C, a maximum conductor temperature of 80°C, wind speed of 1 m/s and intensity of solar radiation 1000 w/m².