

AERIAL BUNCHED CABLE

The concept of insulated aerial cables was developed in the early 1960's in Europe to provide a reliable, safe and economical alternative system of Electrification. Aerial Bundle Cable (ABC Cable) is an innovative concept for overhead power distribution as compared to the conventional bare conductor overhead distribution system. It provides higher level of safety and reliability, lower power losses and ultimate system economy by reducing installation, maintenance and operative cost.

Aerial bundled cables (also aerial bundle conductors or simply ABC) are overhead power lines using several insulated phase conductors bundled tightly together, usually with a Bare/Insulated neutral conductor.

Aluminum & its allowys are used universally as conductors or neutral supports due to their inherent light weight; steel wire traditionally used in ACSR constructions are used as the supporting catenary especially for heavier medium to high voltage cables.



STANDARDS COMPLIANCE



QUALITY CERTIFICATIONS



Dynamic Cables Limited

AN ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

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STANDARD

Basic design to BS 7870, IEC 60502 / NFC 33-209 standards of Equivalent Standards

CONSTRUCTION FOR LV AERIAL BUNCHED CABLE

Conductor - Circular compacted stranded Aluminum

Conductor - Insulation XPLE compound

Core Identification - Through Ridges or numbering

CONSTRUCTION FOR MV AERIAL BUNCHED CABLE

Phase Conductor - Circular compacted stranded Aluminium Conductor

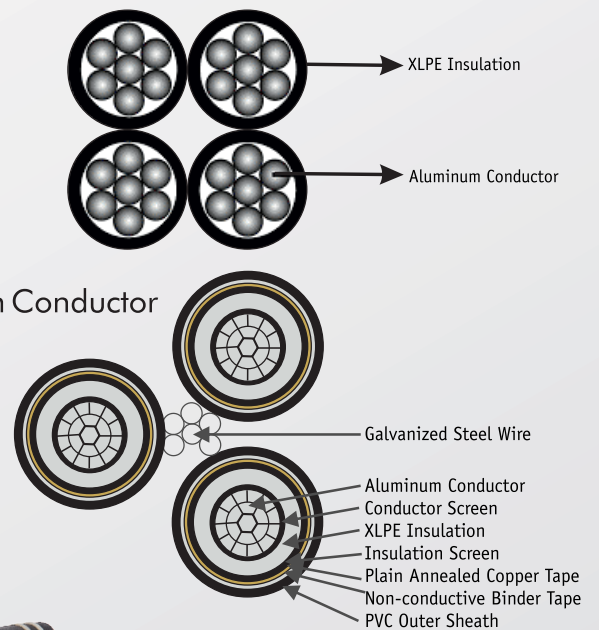
Conductor Screen - Extruded semi-conductive layer

Insulation - XPLE compound

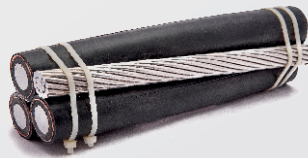
Metallic Screen - Copper tape screen

Outer Sheath - PVC/HDPE support Conductor -

AAC/AAAC/Galvanized steel wires.



0.6/1 (1.2) KV



LV AERIAL BUNCHED CABLES

Description

Three Phase Cores of aluminum Conductor with one Neutral Aluminum Alloy shall twisted together. Cables are according to NFC: 33-209, IEC or Equivalent Standard.

Applications

These cables are generally suitable for overhead application.

Size mm ²	Nominal Cross Sectional Area (mm2)		Maximum DC Resistance Conductor at 20°C (Ohm/Km)		Insulation Thickness (mm) (nominal)	Current Rating in Air at ambient air temperature of 40°C (Amps.)	Short Circuit Capacity for 1 second (KA)
	Phase	Neutral	Phase	Neutral	Phase		
LV Aerial Bunched Cable with XLPE insulation							
3CX16 + 25	16	25	1.91	1.38	1.2	65	1.5
3CX25 + 25	25	25	1.2	1.38	1.4	99	2.35
3CX25 + 54.6	25	54.6	1.2	0.630	1.4	99	2.35
3CX35 + 25	35	25	0.868	1.38	1.6	122	3.29
3CX35 + 54.6	35	54.6	0.868	0.630	1.6	122	3.29
3CX50 + 35	50	35	0.641	0.986	1.6	149	4.7
3CX50 + 54.6	50	54.6	0.641	0.630	1.6	149	4.7
3CX70 + 54.6	70	54.6	0.443	0.630	1.8	190	6.58
3CX95 + 70	95	70	0.320	0.492	1.8	235	8.93

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