OVERHEAD TRANSMISSION LINES



CONSTRUCTION DETAILS:

1. Conductor

Circular, stranded and compacted or uncompacted Aluminium conductors.

2. Insulation:

An extruded layer of Cross Linked Polyethylene (XLPE) with 2.5% Carbon. Black.

Assembly:

Cores are assembled to form two (Duplex), three (Triplex), four (Quadruplex) or more conductors.

The phase cores shall be identified by continuous, longitudinal ridges. The neutral core shall be without any ridges, while the pilot wire consists of a bare Copper conductor.

Applicable Standards:

- NFC 33-209
- HD 626

Applications:

Aerial Bundled Cable (ABC) is suitable for overhead distribution networks applications, service drop cable between a power pole and the service entrance, or as a secondary distribution cable between poles. The use of these services drop or secondary distribution cables is limited to circuits, not exceeding 1000 volts phase-to-phase or 600 volts phase-to-ground, to a normal temperature rating of the service conductor temperature of 90 °C.

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ABC WITHOUT SUPPORTING NEUTRAL

Nominal Cross Sectional Area for Phase	Max. DC. resistance at 20°C	Approx. Overall Diameter	Approx. Weight						
	Ω/km		kg/km						
	Two Conductors (Duplex)								
16	1.7986	15	140						
25	1.1787	18	215						
35	0.8317	22	435						
50	0.5944	25	580						
Four Conductors (Quadruplex)									
16	1.7986	18	280						
25	1.1787	22	430						
35	0.8317	24	535						
50	0.5944	30	795						
70	0.4367	33	995						
95	0.3081	38	1350						





ABC WITH SUPPORTING NEUTRAL

Nominal Cross Sectional Area for Phase	Nominal Cross Sectional Area for Support Neutral	Max. DC. Resistance at 20°C	Max. DC. Resistance at 20°C for Neutral	Approx. Overall Diameter	Approx. Weight
mm²		Ω/km	Ω/km		kg/km
		Three Conductors with Supp	porting Neutral		
25	54.6	1.1787	0.63	30	530
35		0.8317		33	780
50		0.5944		36	990
70		0.4367		37.5	1140
70	70	0.4367	0.5	40	1170
95		0.3081		44	1378
120		0.2456		46	1675
150		0.1960		48	1820
120	95	0.2456	0.343	47	1770
150		0.1960		49	1865