



1. PHASE-ALUMINIUM CONDUCTORS 2. SUPPORTING-ALUMINIUM ALLOY CONDUCTOR 3. XLPE INSULATION

# NEELKANTH CABLES LIMITED DATA SHEET

# AERIAL BUNDLED CONDUCTOR LOW VOLTAGE XLPE POWER CABLE

Cable Description : Hard Drawn Aluminium Conductors, XLPE Insulated, with Aluminium Conductors, XLPE Insulated Supporting Neutral Conductor.

Make	NEELKANTH CABLES LIMITED
Reference Standard	Low Voltage Aerial Bundle Conductor XLPE Power Cable SANS-1418 Part 1 & 2
Voltage Grade	600/1000 Volt
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

# **Range of Product**

Single Core 16 Sq.mm up to 3 Core X 150 + 1Core X 70 Sq.mm

## APPLICATION

Used for overhead power transmission and distribution projects.

# CONSTRUCTION

Hard Drawn Aluminium Phase Conductor, around an aluminium Alloy Supporting Core , Insulated with Carbon loaded Cross Linked Polyethylene(XLPE), Additional sub-conductors optional in both self -supporting and supporting core System.

#### PHASE CONDUCTORS

The material of Phase, Neutral and auxiliary conductors hard drawn Aluminium wire, which has tensile strength, befor stranding minimum 140MPa and maximum 225 Mpa

# SUPPORTING CONDUCTORS

A supporting conductor construced aluminium-magnesium-silicon alloy wires, which has tensile strength, befor stranding minimum 295MPa, and with modulus of elasticity 59000 Mpa, coefficeent of linear expansion 23 x 10<sup>-6</sup>/°C.

### INSULATION

Insulation material cross-linked polyethylene (XLPE) type- C , requirements as per SANS 1411-4, with contain at least 2.5% (m/m) carbon black.

## **Technical Characteristic**

Voltage Rating(Uo/U)	600/1000V	
Test Voltage	4 kV for 5 Minute.	
Spark Test Voltage	6 kV a.c	
Temperature rating	Fixed: -10 to +80°C	
Short Circuit Temp.	250°C	
Min.Bending Radius	Fixed: 10 x Overall Diameter	
	D = Overall Cable Diameter	

#### Marking & Packing

Marking over the Insulation

Cable Length

Type of Packing

PHASE CORE- NEELKANTH CABLES , CABLE SIZE, NUMBER PRINTING or EMBOSS 1, 2, or 3, 600/1000 V, YEAR OF MANUFACTURING 600/1000 Mtrs or as per Requirement

Wooden Drum Fully Packed with Lagging

Data Sheet No.	10434	Page 1 of 1
Version	01	Issue Date: 29/04/2021