



1. STRANDED ALUMINIUM CONDUCTOR
2. XLPE INSULATION
3. FR PVC OUTER SHEATH

NEELKANTH CABLES LIMITED

DATA SHEET

SINGLE CORE XLPE UNARMoured REDUCED FLAME PROPAGATION (FR) LV POWER CABLE

Single Core Cable Description :Aluminium Conductor,XLPE Insulated,PVC-FR Inner Sheathed, Overall FR- PVC Outer Sheathed Low Voltage Cable.

Make	NEELKANTH CABLES LIMITED
Reference Standard	As per SANS:1507-4, ZS-688-4, & BS 5467
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 1000 Sq.mm

Application

These power and cables are used for electricity supply in low voltage installation system. they are well adapted to underground, outdoors, used in industrial applications where chemical and mechanical protections are needed .In particular for installation where fire,smoke emission and toxic flumes create a potential threat.

Construction

Conductor	Aluminium Conductor, round stranded or shaped class 2 to SANS 1411-1	
Insulation	XLPE(Cross-linked Polyethylene)as per SANS 1411-4 & ZS 756 -4	
Insulation colour	as per SANS 1507-4 & ZS 688-4 1 Core : Red or as per Requirement	as per BS 5467 1 Core : Brown or as per Requirement
Filler (Optional)	PVC or Polypropylene yarn	
Binder Tape (Optional)	Polyester Tape	
Outer Sheath	PVC(Polyvinyl Chloride)as per SANS 1411-2, colour: Black with Red Stripe or as per Requirement	

Technical Characteristic

Voltage Grade	600/1000V
Test Voltage	Up to 16 Sq.mm 3 kV for 5 Minute, 25 Sq.mm and above 4.5 kV for 5 Minute
Spark Test Voltage	Up to and including 16 Sq.mm 6 kV Up to and including 240 Sq.mm 10 kV Above 240 Sq.mm 12 kV
Insulation Volume Resistivity	Minimum 1×10^{14} Ohm-cm
Temperature Rating	-15°C to +90°C
Flame Retardent	SANS 60332 Part 1,2&3
Minimum Installation Bending Radius	8 x Overall Diameter

Marking & Packing

Marking over the sheath	NEELKANTH CABLES , CABLE SIZE, 600/1000V, AL/XLPE/PVC-FR ELECTRIC CABLE , YEAR OF MANUFACTURING
Sequentail Length Marking	Shall be provided on outer sheath at every one Meter
Cable Length	Multiple of 250/500/1000 or as per Requirement
Type of Drum	Wooden Drum Fully Packed with Lagging

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