



1. STRANDED ALUMINIUM CONDUCTOR
2. XLPE INSULATION
3. FR PVC INNER SHEATH
4. GALVANISED STEEL WIRE ARMOUR
5. FR PVC OUTER SHEATH

NEELKANTH CABLES LIMITED

DATA SHEET

THREE CORE XLPE ARMoured REDUCED FLAME PROPAGATION (FR) LV POWER CABLE

Single Core Cable Description :Aluminium Conductor,XLPE Insulated,PVC-FR Inner Sheathed,Aluminium Wire Armoured, 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 1.5 Sq.mm up to 500 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 emmission 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 3 Core : Red, Yellow,Blue	as per BS 5467 3 Core : Brown,Black Grey
Filler (Optional)	PVC or Polypropylene yarn	
Binder Tape (Optional)	Polyester Tape	
Inner Sheath/Bedding	PVC(Polyvinyal Chloride)as per SANS 1411-2	
Armour	Galvanised Steel Wire Armoured (SWA)	
Outer Sheath	PVC(Polyvinyal 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	10 x Overall Diameter

Marking & Packing

Marking over the sheath	NEELKANTH CABLES , CABLE SIZE, 600/1000V AL/XLPE/SWA/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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