1. STRANDED ALUMINIUM CONDUCTOR
2. XLPE INSULATION
3. POLYPROPYLENE TAPE
4. NHLSFR INNER SHEATH
5. GALVANISED STEEL WIRE ARMOUR
6. NHLSFR OUTER SHEATH

NEELKANTH CABLES LIMITED

DATA SHEET

FOUR CORE XLPE ARMOURED ZERO HALOGEN EMISSION, REDUCED SMOKE EMISSION AND REDUCED FLAME PROPAGATION (NHLSFR) LV POWER CABLE

Single Core Cable Description : Aluminium Conductor,XLPE Insulated,NHLSFR(Polyolefin) Inner Sheathed,Aluminium Wire Armoured, Overall NHLSFR(Polyolefin) Outer Sheathed Low Voltage Cable.

Make	NEELKANTH CABLES LIMITED
Reference Standard	As per SANS:1507-5, ZS-688-5
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 emmision 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 1507-5 & ZS 688-5 4 Core : Red, Yellow, Blue, Black
Filler (Optional)	PVC or Polypropylene yarn
Binder Tape (Optional)	Polyester Tape
Inner Sheath/Bedding	NHLSFR(Zero Halogen Emission Reduced Smoke Emission and Reduced Flame Propagation,Polyolefin) as per SANS 1411-5
Armour	Galvanised Steel Wire Armoured(SWA)
Outer Sheath	NHLSFR(Zero Halogen Emission Reduced Smoke Emission and Reduced Flame Propagation,Polyolefin) as per SANS 1411-5 colour: Black with White 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 x 10^{14} Ohm-cm
Temperature Rating	-15ºC to +90ºC
Flame Retardent	SANS 60332 Part -3
Reduced Smoke Emission	SANS 61034-2
Halogen Gas	SANS 60754-2
Minimum Installation Bending Radius	10 x Overall Diameter

Marking & Packing

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