



1. STRANDED ALUMINIUM CONDUCTOR
2. XLPE INSULATION
3. NHL5FR INNER SHEATH
4. GALVANISED STEEL WIRE ARMOUR
5. NHL5FR OUTER SHEATH

## NEELKANTH CABLES LIMITED

### DATA SHEET

**FIVE CORE XLPE ARMoured ZERO HALOGEN EMISSION, REDUCED SMOKE EMISSION AND REDUCED FLAME PROPAGATION (NHL5FR) LV POWER CABLE**

Single Core Cable Description : Aluminium Conductor,XLPE Insulated,NHL5FR(Polyolefin) Inner Sheathed,Aluminium Wire Armoured, Overall NHL5FR(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 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 1507-5 & ZS 688-5  
 5 Core : Red, Yellow, Blue, Black, Grey

Filler (Optional) PVC or Polypropylene yarn

Binder Tape (Optional) Polyester Tape

Inner Sheath/Bedding NHL5FR(Zero Halogen Emission Reduced Smoke Emission and Reduced Flame Propagation,Polyolefin) as per SANS 1411-5

Armour Galvanised Steel Wire Armoured(SWA)

Outer Sheath NHL5FR(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  $1 \times 10^{14}$  Ohm-cm  
 Temperature Rating -15°C to +90°C  
 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/NHL5FR 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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