



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

## NEELKANTH CABLES LIMITED DATA SHEET

### SINGLE 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** 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 fumes 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 1 Core : Red or as per Requirement
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	Single Core : Aluminium Wire Armoured (AWA)
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 $1 \times 10^{14}$ 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/AWA/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

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

## NEELKANTH CABLES LIMITED

### DATA SHEET

#### TWO 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 emission and toxic fumes 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 2 Core : Red, 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 $1 \times 10^{14}$ Ohm-cm
Temperature Rating	-15°C to +90°C
Flame Retardant	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

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

## NEELKANTH CABLES LIMITED

### DATA SHEET

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

Single Core Cable Description : Aluminium Conductor, XLPE Insulated, NHLFSFR (Polyolefin) Inner Sheathed, Aluminium Wire Armoured, Overall NHLFSFR (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 fumes 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 3 Core : Red, Yellow, Blue
Filler (Optional)	PVC or Polypropylene yarn
Binder Tape (Optional)	Polyester Tape
Inner Sheath/Bedding	NHLFSFR (Zero Halogen Emission Reduced Smoke Emission and Reduced Flame Propagation, Polyolefin) as per SANS 1411-5
Armour	Galvanised Steel Wire Armoured (SWA)
Outer Sheath	NHLFSFR (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 Retardant	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/NHLFSFR 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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- 1. STRANDED ALUMINIUM CONDUCTOR
- 2. XLPE INSULATION
- 3. POLYPROPYLENE TAPE
- 4. NHLFR INNER SHEATH
- 5. GALVANISED STEEL WIRE ARMOUR
- 6. NHLFR OUTER SHEATH

## NEELKANTH CABLES LIMITED

### DATA SHEET

**THREE CORE WITH REDUCED NEUTRAL XLPE ARMoured ZERO HALOGEN EMISSION, REDUCED SMOKE EMISSION AND REDUCED FLAME PROPAGATION (NHLFR) LV POWER CABLE**

Single Core Cable Description : Aluminium Conductor,XLPE Insulated,NHLFR(Polyolefin) Inner Sheathed,Aluminium Wire Armoured, Overall NHLFR(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** 25 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 1507-5 & ZS 688-5  
 3.5 Core : Red, Yellow, Blue, Black  
 Filler (Optional) PVC or Polypropylene yarn  
 Binder Tape (Optional) Polyester Tape  
 Inner Sheath/Bedding NHLFR(Zero Halogen Emission Reduced Smoke Emission and Reduced Flame Propagation,Polyolefin) as per SANS 1411-5  
 Armour Galvanised Steel Wire Armoured(SWA)  
 Outer Sheath NHLFR(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/NHLFR 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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1. STRANDED ALUMINIUM CONDUCTOR
2. XLPE INSULATION
3. POLYPROPYLENE TAPE
4. NLSFR INNER SHEATH
5. GALVANISED STEEL WIRE ARMOUR
6. NLSFR OUTER SHEATH

## NEELKANTH CABLES LIMITED

### DATA SHEET

#### FOUR CORE XLPE ARMoured ZERO HALOGEN EMISSION, REDUCED SMOKE EMISSION AND REDUCED FLAME PROPAGATION (NLSFR) LV POWER CABLE

Single Core Cable Description : Aluminium Conductor, XLPE Insulated, NLSFR (Polyolefin) Inner Sheathed, Aluminium Wire Armoured, Overall NLSFR (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 fumes 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	NLSFR (Zero Halogen Emission Reduced Smoke Emission and Reduced Flame Propagation, Polyolefin) as per SANS 1411-5
Armour	Galvanised Steel Wire Armoured (SWA)
Outer Sheath	NLSFR (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 Retardant	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/NLSFR 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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1. STRANDED ALUMINIUM CONDUCTOR
2. XLPE INSULATION
3. NHLFSR INNER SHEATH
4. GALVANISED STEEL WIRE ARMOUR
5. NHLFSR OUTER SHEATH

## NEELKANTH CABLES LIMITED

### DATA SHEET

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

Single Core Cable Description : Aluminium Conductor, XLPE Insulated, NHLFSR (Polyolefin) Inner Sheathed, Aluminium Wire Armoured, Overall NHLFSR (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 fumes 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	NHLFSR (Zero Halogen Emission Reduced Smoke Emission and Reduced Flame Propagation, Polyolefin) as per SANS 1411-5
Armour	Galvanised Steel Wire Armoured (SWA)
Outer Sheath	NHLFSR (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/NHLFSR 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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1. STRANDED ALUMINIUM CONDUCTOR
2. XLPE INSULATION
3. NHLFSFR OUTER SHEATH

## NEELKANTH CABLES LIMITED

### DATA SHEET

**SINGLE CORE XLPE UNARMoured ZERO HALOGEN EMISSION, REDUCED SMOKE EMISSION AND REDUCED FLAME PROPAGATION (NHLFSFR) LV POWER CABLE**

Single Core Cable Description : Aluminium Conductor,XLPE Insulated,NHLFSFR(Polyolefin) Inner Sheathed, Overall NHLFSFR(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**                      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 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 1 Core : Red or as per Requirement
Filler (Optional)	PVC or Polypropylene yarn
Binder Tape (Optional)	Polyester Tape
Outer Sheath	NHLFSFR(Zero Halogen EmissionReduced 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	8 x Overall Diameter

**Marking & Packing**

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

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1. STRANDED ALUMINIUM CONDUCTOR
2. XLPE INSULATION
3. NHLSFR INNER SHEATH
4. NHLSFR OUTER SHEATH

## NEELKANTH CABLES LIMITED

### DATA SHEET

**TWO CORE XLPE UNARMoured 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, 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 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 2 Core : Red, 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
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 $1 \times 10^{14}$ 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	8 x Overall Diameter

#### Marking & Packing

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

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1. STRANDED ALUMINIUM CONDUCTOR
2. XLPE INSULATION
3. NHLFR INNER SHEATH
4. NHLFR OUTER SHEATH

## NEELKANTH CABLES LIMITED

### DATA SHEET

#### THREE CORE XLPE UNARMoured ZERO HALOGEN EMISSION, REDUCED SMOKE EMISSION AND REDUCED FLAME PROPAGATION (NHLFR) LV POWER CABLE

Single Core Cable Description : Aluminium Conductor, XLPE Insulated, NHLFR (Polyolefin) Inner Sheathed, Overall NHLFR (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 fumes 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 3 Core : Red, Yellow, Blue
Filler (Optional)	PVC or Polypropylene yarn
Binder Tape (Optional)	Polyester Tape
Inner Sheath/Bedding	NHLFR (Zero Halogen Emission Reduced Smoke Emission and Reduced Flame Propagation, Polyolefin) as per SANS 1411-5
Outer Sheath	NHLFR (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 Retardant	SANS 60332 Part -3
Reduced Smoke Emission	SANS 61034-2
Halogen Gas	SANS 60754-2
Minimum Installation Bending Radius	8 x Overall Diameter

**Marking & Packing**

Marking over the sheath	NEELKANTH CABLES , CABLE SIZE, 600/1000V, AL/XLPE/NHLFR 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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1. STRANDED ALUMINIUM CONDUCTOR
2. XLPE INSULATION
3. POLYPROPYLENE TAPE
4. NHLFSR INNER SHEATH
5. NHLFSR OUTER SHEATH

## NEELKANTH CABLES LIMITED

### DATA SHEET

**THREE CORE WITH REDUCED NEUTRAL XLPE UNARMoured ZERO HALOGEN EMISSION, REDUCED SMOKE EMISSION AND REDUCED FLAME PROPAGATION (NHLFSR) LV POWER CABLE**

Single Core Cable Description : Aluminium Conductor,XLPE Insulated,NHLFSR(Polyolefin) Inner Sheathed, Overall NHLFSR(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** 25 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 3.5 Core : Red, Yellow,Blue, Black
Filler (Optional)	PVC or Polypropylene yarn
Binder Tape (Optional)	Polyester Tape
Inner Sheath/Bedding	NHLFSR(Zero Halogen Emission Reduced Smoke Emission and Reduced Flame Propagation,Polyolefin) as per SANS 1411-5
Outer Sheath	NHLFSR(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	8 x Overall Diameter

#### Marking & Packing

Marking over the sheath	NEELKANTH CABLES , CABLE SIZE, 600/1000V, AL/XLPE/NHLFSR 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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1. STRANDED ALUMINIUM CONDUCTOR
2. XLPE INSULATION
3. POLYPROPYLENE TAPE
4. NHLSFR INNER SHEATH
5. NHLSFR OUTER SHEATH

**NEELKANTH CABLES LIMITED  
DATA SHEET**

**FOUR CORE XLPE UNARMoured 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, 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  
 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  $1 \times 10^{14}$  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 8 x Overall Diameter

**Marking & Packing**

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

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1. STRANDED ALUMINIUM CONDUCTOR
2. XLPE INSULATION
3. NHLSFR INNER SHEATH
4. NHLSFR OUTER SHEATH

**NEELKANTH CABLES LIMITED  
DATA SHEET**

**FIVE CORE XLPE UNARMOURED 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, Grey  
 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  
 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  $1 \times 10^{14}$  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 8 x Overall Diameter

**Marking & Packing**

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

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