

NEELKANTH CABLES LIMITED

DATA SHEET

THREE CORE XLPE ARMOURED REDUCED FLAME PROPAGATION (FR) MEDIUM VOLTAGE CABLE

Three Core Cable Description : Copper Conductor, Semi-conducting conductor Screen, XLPE Insulated, Semi-conducting Insulation screen, Metallic screen over Individual Core, FR- PVC Inner Sheathed, Galvanised Steel Wire Armoured, Overall FR-PVC Outer Sheathed, Medium Voltage Cable.

Make Reference Standard Voltage Rating (Uo / U) Maximum Operating Voltage (Um) Operating Temperature Max. Temp. During Short Circuit NEELKANTH CABLES LIMITED As per SANS:1339:2017 19/33 kV 36 kV 90°C 250°C

Range of Product

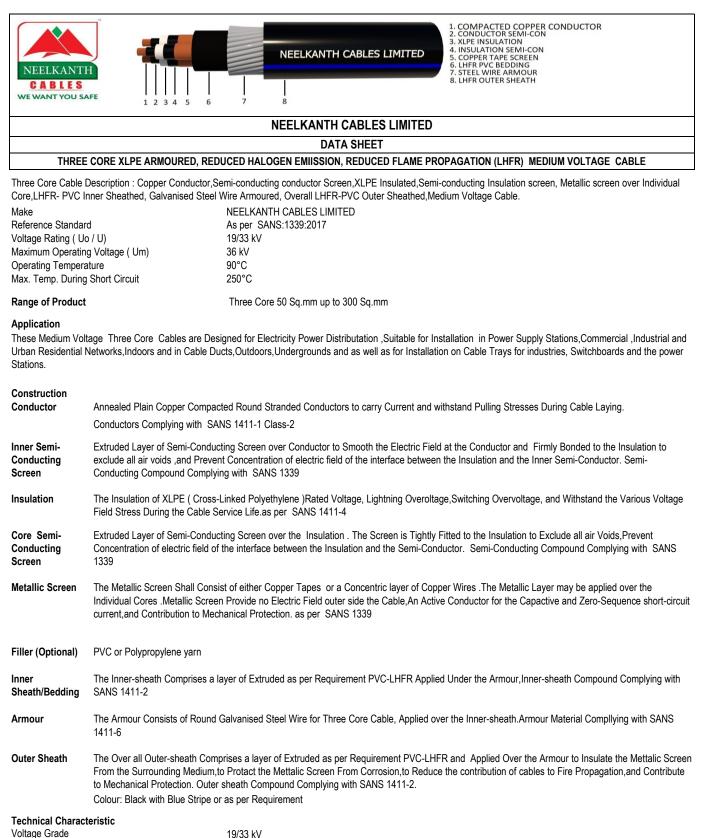
Application

Three Core 50 Sq.mm up to 300 Sq.mm

These Medium Voltage Three Core Cables are Designed for Electricity Power Distributation ,Suitable for Installation in Power Supply Stations,Commercial ,Industrial and Urban Residential Networks,Indoors and in Cable Ducts,Outdoors,Undergrounds and as well as for Installation on Cable Trays for industries, Switchboards and the power Stations.

Construction Conductor	Annealed Plain Copper Compac Conductors Complying with SA	cted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. NS 1411-1 Class-2
Inner Semi- Conducting Screen		cting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to nt Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi- ing with SANS 1339
Insulation		Linked Polyethylene)Rated Voltage, Lightning Overoltage,Switching Overvoltage, and Withstand the Various Voltage ervice Life.as per SANS 1411-4
Core Semi- Conducting Screen		cting Screen over the Insulation . The Screen is Tightly Fitted to the Insulation to Exclude all air Voids, Prevent the interface between the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with SANS
Metallic Screen	The Metallic Screen Shall Consist of either Copper Tapes or a Concentric layer of Copper Wires . The Metallic Layer may be applied over the Individual Cores . Metallic Screen Provide no Electric Field outer side the Cable, An Active Conductor for the Capactive and Zero-Sequence short-circui current, and Contribution to Mechanical Protection. as per SANS 1339	
Filler (Optional)	PVC or Polypropylene yarn	
Inner Sheath/Bedding	The Inner-sheath Comprises a layer of Extruded as per Requirement PVC Applied Under the Armour, Inner-sheath Compound Complying with SANS 1411-2	
Armour	The Armour Consists of Round Galvanised Steel Wire for Three Core Cable, Applied over the Inner-sheath. Armour Material Complying with SANS 1411-6	
Outer Sheath	The Over all Outer-sheath Comprises a layer of Extruded as per Requirement PVC-FR and Applied Over the Armour to Insulate the Mettalic Screen From the Surrounding Medium,to Protact the Mettalic Screen From Corrosion,to Reduce the contribution of cables to Fire Propagation,and Contribute to Mechanical Protection. Outer sheath Compound Complying with SANS 1411-2. Colour: Black with Red Stripe or as per Requirement	
Technical Charac Voltage Grade Test Voltage Temperature Ratin Partial Discharge Resistivity of Semi- Flame Retardent Minimum Installatio	g conducting Screen	19/33 kV 66 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C SANS 6291 SANS 6284-2 SANS 60332 Part-3-24 12(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor
Marking & Packin Marking over the sl Sequentail Length Cable Length Type of Drum	heath	NEELKANTH CABLES , CABLE SIZE, 19/33 kV CU/XLPE/CTS/PVC-FR/SWA/PVC-FR ELECTRIC CABLE , YEAR OF MANUFACTURING Shall be provided on outer sheath at every one Meter Multiple of 250/500 or as per Requirement Wooden Drum Fully Packed with Lagging

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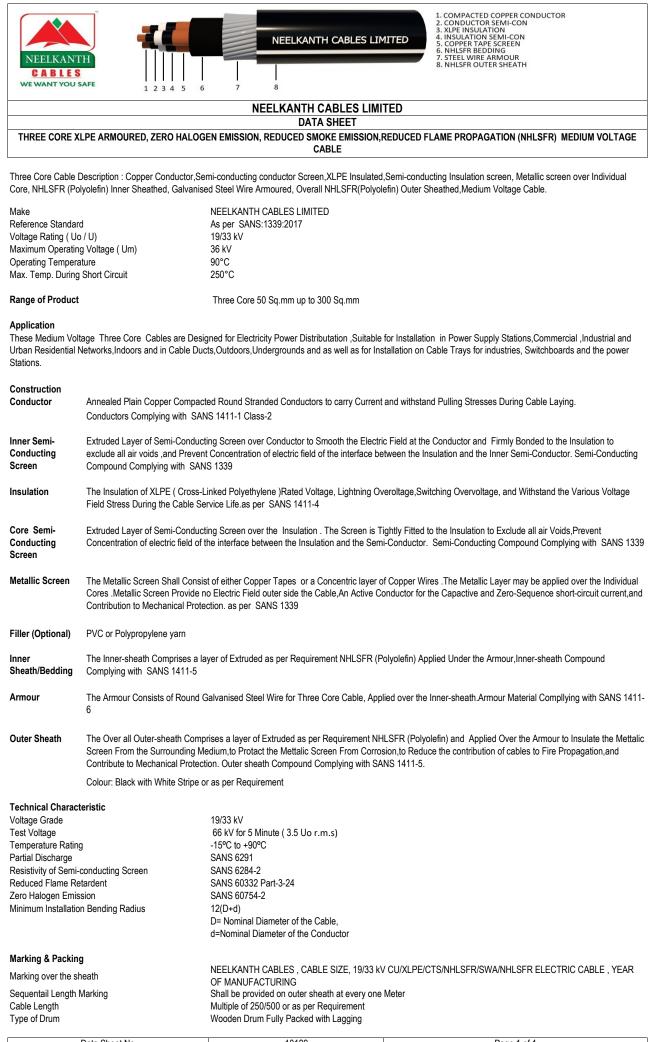


Vollago Orado	
Test Voltage	
Temperature Rating	
Partial Discharge	
Resistivity of Semi-conducting	Screen
Reduced Flame Retardent	
Reduced Halogen Emission	
Minimum Installation Bending	Radius

19/33 kV 66 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C SANS 6291 SANS 6284-2 SANS 60332 Part-3-24 SANS 5956 12(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor

Marking & Packing	NEELKANTH CABLES , CABLE SIZE, 19/33 kV CU/XLPE/CTS/PVC-LHFR/SWA/PVC-LHFR ELECTRIC CABLE ,
Marking over the sheath	YEAR OF MANUFACTURING
Sequentail Length Marking	Shall be provided on outer sheath at every one Meter
Cable Length	Multiple of 250/500 or as per Requirement
Type of Drum	Wooden Drum Fully Packed with Lagging

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DATA SHEET

THREE CORE XLPE ARMOURED, UV STABILIZED POLYETHYLENE OUTER SHEATHED (PE) MEDIUM VOLTAGE CABLE

Three Core Cable Description : Copper Conductor, Semi-conducting conductor Screen, XLPE Insulated, Semi-conducting Insulation screen, Metallic screen over Individual Core, PVC-FR Inner Sheathed, Galvanised Steel Wire Armoured, Overall UV Stabilized Polyethylene (PE) Outer Sheathed, Medium Voltage Cable.

Make Reference Standard Voltage Rating (Uo / U) Maximum Operating Voltage (Um) Operating Temperature Max. Temp. During Short Circuit NEELKANTH CABLES LIMITED As per SANS:1339:2017 19/33 kV 36 kV 90°C 250°C

Range of Product

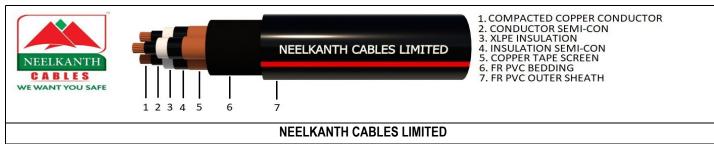
Three Core 50 Sq.mm up to 300 Sq.mm

Application

These Medium Voltage Three Cores Cables are Designed for Electricity Power Distributation ,Suitable for Installation in Power Supply Stations,Commercial ,Industrial and Urban Residential Networks,Indoors and in Cable Ducts,Outdoors,Undergrounds and as well as for Installation on Cable Trays for industries, Switchboards and the power Stations.

Construction Conductor	Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. Conductors Complying with SANS 1411-1 Class-2		
Inner Semi- Conducting Screen	Extruded Layer of Semi-Conducting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to exclude all air voids and Prevent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339		
Insulation	The Insulation of XLPE (Cross-L Field Stress During the Cable Se		reroltage,Switching Overvoltage, and Withstand the Various Voltage
Core Semi- Conducting Screen			ightly Fitted to the Insulation to Exclude all air Voids,Prevent i-Conductor. Semi-Conducting Compound Complying with SANS 1339
Metallic Screen	The Metallic Screen Shall Consist of either Copper Tapes or a Concentric layer of Copper Wires . The Metallic Layer may be applied over the Individual Cores .Metallic Screen Provide no Electric Field outer side the Cable, An Active Conductor for the Capactive and Zero-Sequence short-circuit current, and Contribution to Mechanical Protection. as per SANS 1339		
Filler (Optional)	PVC or Polypropylene yarn		
Inner Sheath/Bedding	The Inner-sheath Comprises a layer of Extruded as per Requirement PVC-FR, Applied Under the Armour, Inner-sheath Compound Complying with SANS 1411-2		
Armour	The Armour Consists of Round Galvanised Steel Wire for Three Core Cable, Applied over the Inner-sheath. Armour Material Compllying with SANS 1411 6		
Outer Sheath	The Over all Outer-sheath Comprises a layer of Extruded as per Requirement Polyethylene (PE) and Applied Over the Armour to Insulate the Metta Screen From the Surrounding Medium, to Protact the Mettalic Screen From Corrosion, to Reduce the contribution of cables to Fire Propagation, and Contribute to Mechanical Protection. Outer sheath Compound Complying with SANS 1411-7.		sion, to Reduce the contribution of cables to Fire Propagation, and
	Colour: Black or as per Requirement		
Technical Characteristic Voltage Grade Test Voltage Temperature Rating Partial Discharge Resistivity of Semi-conducting Screen Minimum Installation Bending Radius		19/33 kV 66 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C SANS 6291 SANS 6284-2 12(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor	
Marking & Packing	g		
Marking over the sheath		NEELKANTH CABLES , CABLE SIZE, 19/33 k MANUFACTURING	/ CU/XLPE/CTS/PVC-FR/SWA/PE, ELECTRIC CABLE , YEAR OF
Cable Length		Shall be provided on outer sheath at every one Multiple of 250/500 or as per Requirement Wooden Drum Fully Packed with Lagging	Meter
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DATA SHEET

THREE CORE XLPE UNARMOURED REDUCED FLAME PROPAGATION (FR) MEDIUM VOLTAGE CABLE

Three Core Cable Description : Copper Conductor, Semi-conducting conductor Screen, XLPE Insulated, Semi-conducting Insulation screen, Metallic screen over Individual Core,FR- PVC Inner Sheathed, Overall FR-PVC Outer Sheathed, Medium Voltage Unarmoured Cable.

Make NEELKANTH CABLES LIMITED **Reference Standard** Voltage Rating (Uo / U) 19/33 kV Maximum Operating Voltage (Um) 36 kV **Operating Temperature** 90°C Max. Temp. During Short Circuit 250°C

As per SANS:1339:2017

Range of Product

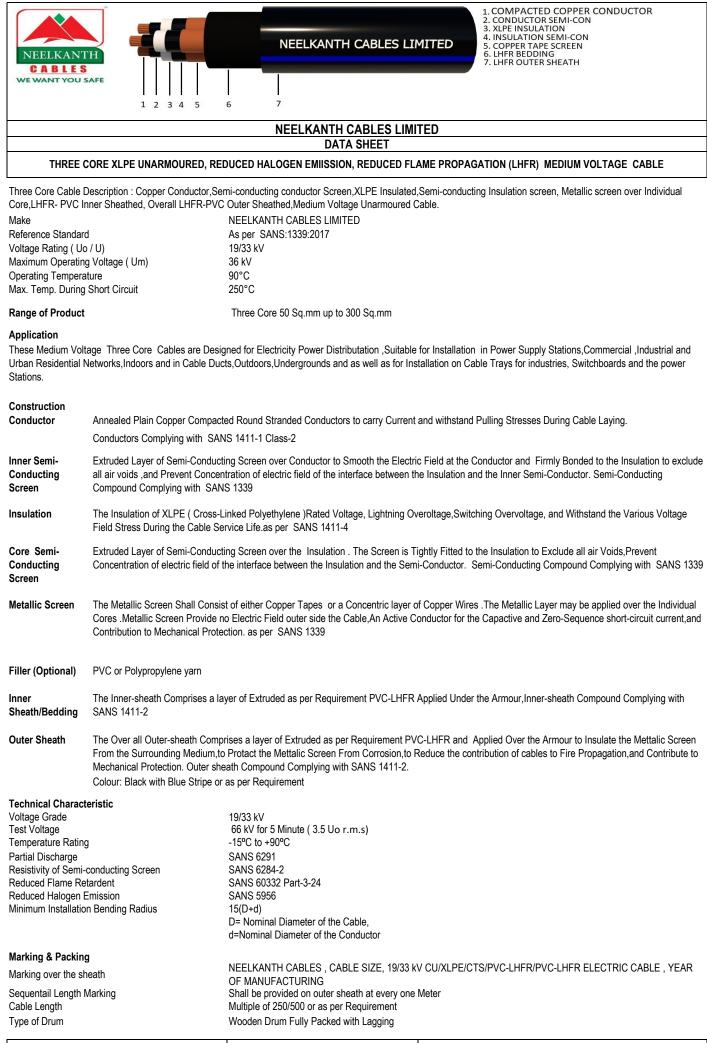
Three Core 50 Sq.mm up to 300 Sq.mm

Application

These Medium Voltage Three Core Cables are Designed for Electricity Power Distributation , Suitable for Installation in Power Supply Stations, Commercial , Industrial and Urban Residential Networks, Indoors and in Cable Ducts, Outdoors, Undergrounds and as well as for Installation on Cable Trays for industries, Switchboards and the power Stations.

Construction Conductor	Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. Conductors Complying with SANS 1411-1 Class-2			
Inner Semi- Conducting Screen	Extruded Layer of Semi-Conducting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to exclud all air voids ,and Prevent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339			
Insulation	The Insulation of XLPE (Cross-L Field Stress During the Cable Se		eroltage,Switching Overvoltage, and Withstand the Various Voltage	
Core Semi- Conducting Screen			ghtly Fitted to the Insulation to Exclude all air Voids,Prevent i-Conductor. Semi-Conducting Compound Complying with SANS 1339	
Metallic Screen	The Metallic Screen Shall Consist of either Copper Tapes or a Concentric layer of Copper Wires . The Metallic Layer may be applied over the Individ Cores .Metallic Screen Provide no Electric Field outer side the Cable, An Active Conductor for the Capactive and Zero-Sequence short-circuit current Contribution to Mechanical Protection. as per SANS 1339			
Filler (Optional)	PVC or Polypropylene yarn			
Inner Sheath/Bedding	The Inner-sheath Comprises a layer of Extruded as per Requirement PVC Applied Under the Armour, Inner-sheath Compound Complying with SAN 1411-2		I Under the Armour, Inner-sheath Compound Complying with SANS	
Outer Sheath	The Over all Outer-sheath Comprises a layer of Extruded as per Requirement PVC-FR and Applied Over the Armour to Insulate the Mettalic Scr From the Surrounding Medium, to Protact the Mettalic Screen From Corrosion, to Reduce the contribution of cables to Fire Propagation, and Contri Mechanical Protection. Outer sheath Compound Complying with SANS 1411-2. Colour: Black with Red Stripe or as per Requirement			
Technical Characteristic Voltage Grade Test Voltage Temperature Rating Partial Discharge Resistivity of Semi-conducting Screen Flame Retardent Minimum Installation Bending Radius		19/33 kV 66 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C SANS 6291 SANS 6284-2 SANS 60332 Part-3-24 15(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor		
Marking & Packing	g			
Marking over the sheath		NEELKANTH CABLES , CABLE SIZE, 19/33 kV CU/XLPE/CTS/PVC-FR/PVC-FR ELECTRIC CABLE , YEAR OF MANUFACTURING		
Sequentail Length Marking		Shall be provided on outer sheath at every one Meter		
Cable Length Type of Drum		Multiple of 250/500 or as per Requirement Wooden Drum Fully Packed with Lagging		
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NEELKANTH CABLES LIMITED

1. COMPACTED COPPER CONDUCTOR 2. CONDUCTOR SEMI-CON 3. XLPE INSULATION 4. INSULATION SEMI-CON 5. COPPER TAPE SCREEN 6. NHLSFR BEDDING 7. NHLSFR OUTER SHEATH

NEELKANTH CABLES LIMITED

DATA SHEET THREE CORE XLPE UNARMOURED, ZERO HALOGEN EMISSION, REDUCED SMOKE EMISSION, REDUCED FLAME PROPAGATION (NHLSFR) MEDIUM VOLTAGE CABLE

Three Core Cable Description : Copper Conductor, Semi-conducting conductor Screen, XLPE Insulated, Semi-conducting Insulation screen, Metallic screen over Individual Core, NHLSFR Inner Sheath, Overall NHLSFR(Polyolefin) Outer Sheathed, Medium Voltage Unarmoured Cable.

Make	NEELKANTH CABLES LIMITED
Reference Standard	As per SANS:1339:2017
Voltage Rating (Uo / U)	19/33 kV
Maximum Operating Voltage (Um)	36 kV
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

Range of Product

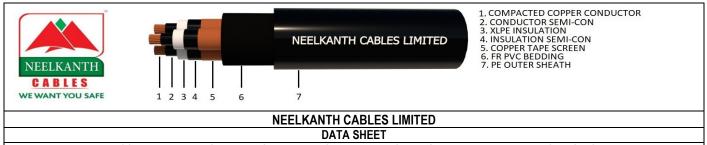
Three Core 50 Sq.mm up to 300 Sq.mm

Application

These Medium Voltage Three Core Cables are Designed for Electricity Power Distributation ,Suitable for Installation in Power Supply Stations,Commercial ,Industrial and Urban Residential Networks,Indoors and in Cable Ducts,Outdoors,Undergrounds and as well as for Installation on Cable Trays for industries, Switchboards and the power Stations.

Construction Conductor	Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. Conductors Complying with SANS 1411-1 Class-2			
Inner Semi- Conducting Screen	Extruded Layer of Semi-Conducting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to exclude all air voids and Prevent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339			
Insulation	The Insulation of XLPE (Cross-Linked Polyethylene) Rated Voltage, Lightning Overoltage, Switching Overvoltage, and Withstand the Various Voltage Field Stress During the Cable Service Life.as per SANS 1411-4			
Core Semi- Conducting Screen	Extruded Layer of Semi-Conducting Screen over the Insulation . The Screen is Tightly Fitted to the Insulation to Exclude all air Voids, Prevent Concentration of electric field of the interface between the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339			
Metallic Screen	The Metallic Screen Shall Consist of either Copper Tapes or a Concentric layer of Copper Wires . The Metallic Layer may be applied over the Individual Cores .Metallic Screen Provide no Electric Field outer side the Cable, An Active Conductor for the Capactive and Zero-Sequence short-circuit current, and Contribution to Mechanical Protection. as per SANS 1339			
Filler (Optional)	PVC or Polypropylene yarn			
Inner Sheath/Bedding	The Inner-sheath Comprises a layer of Extruded as per Requirement NHLSFR(Polyolefin) Applied Under the Armour, Inner-sheath Compound Complying with SANS 1411-5			
Outer Sheath	The Over all Outer-sheath Comprises a layer of Extruded as per Requirement NHLSFR (Polyolefin) and Applied Over the Armour to Insulate the Mettalic Screen From the Surrounding Medium, to Protact the Mettalic Screen From Corrosion, to Reduce the contribution of cables to Fire Propagation, and Contribute to Mechanical Protection. Outer sheath Compound Complying with SANS 1411-5.			
	Colour: Black with White Stripe or as per Requirement			
Technical Characteristic Voltage Grade Test Voltage Temperature Rating Partial Discharge Resistivity of Semi-conducting Screen Reduced Flame Retardent Zero Halogen Emission Minimum Installation Bending Radius		19/33 kV 44 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C SANS 6291 SANS 6284-2 SANS 60332 Part-3-24 SANS 60754-2 15(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor		
Marking & Packing	g			
Marking over the sheath		NEELKANTH CABLES , CABLE SIZE, 19/33 kV CU/XLPE/CTS/NHLSFR/NHLSFR ELECTRIC CABLE , YEAR OF MANUFACTURING		
Cable Length		Shall be provided on outer sheath at every one Meter Multiple of 250/500 or as per Requirement Wooden Drum Fully Packed with Lagging		
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THREE CORE XLPE UNARMOURED, UV STABILIZED POLYETHYLENE OUTER SHEATHED (PE) MEDIUM VOLTAGE CABLE

Three Core Cable Description : Copper Conductor, Semi-conducting conductor Screen, XLPE Insulated, Semi-conducting Insulation screen, Metallic screen over Individual Core, PVC-FR Inner Sheathed, Overall UV Stabilized Polyethylene (PE) Outer Sheathed, Medium Voltage Unarmoured Cable.

Make	NEELKANTH CABLES LIMITED
Reference Standard	As per SANS:1339:2017
Voltage Rating (Uo / U)	19/33 kV
Maximum Operating Voltage (Um)	36 kV
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

Range of Product

Three Core 50 Sq.mm up to 300 Sq.mm

Application

These Medium Voltage Three Core Cores Cables are Designed for Electricity Power Distributation, Suitable for Installation in Power Supply Stations, Commercial, Industrial and Urban Residential Networks, Indoors and in Cable Ducts, Outdoors, Undergrounds and as well as for Installation on Cable Trays for industries, Switchboards and the power Stations.

Construction Conductor	Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. Conductors Complying with SANS 1411-1 Class-2		
Inner Semi- Conducting Screen	Extruded Layer of Semi-Conducting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to exclude all air voids ,and Prevent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339		
Insulation	The Insulation of XLPE (Cross-Linked Polyethylene)Rated Voltage, Lightning Overoltage, Switching Overvoltage, and Withstand the Various Voltage Field Stress During the Cable Service Life.as per SANS 1411-4		
Core Semi- Conducting Screen	Extruded Layer of Semi-Conducting Screen over the Insulation . The Screen is Tightly Fitted to the Insulation to Exclude all air Voids, Prevent Concentration of electric field of the interface between the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339		
Metallic Screen	The Metallic Screen Shall Consist of either Copper Tapes or a Concentric layer of Copper Wires . The Metallic Layer may be applied over the Individual Cores . Metallic Screen Provide no Electric Field outer side the Cable, An Active Conductor for the Capactive and Zero-Sequence short-circuit current, and		
Filler (Optional)	PVC or Polypropylene yarn		
Inner Sheath/Bedding	The Inner-sheath Comprises a layer of Extruded as per Requirement PVC-FR Applied Under the Armour, Inner-sheath Compound Complying with SANS 1411-2		
Outer Sheath	The Over all Outer-sheath Comprises a layer of Extruded as per Requirement Polyethylene (PE) and Applied Over the Armour to Insulate the Mettalic Screen From the Surrounding Medium, to Protact the Mettalic Screen From Corrosion, to Reduce the contribution of cables to Fire Propagation, and Contribute to Mechanical Protection. Outer sheath Compound Complying with SANS 1411-7.		
	Colour: Black or as per Requirement		
Technical Characteristic Voltage Grade Test Voltage Temperature Rating Partial Discharge Resistivity of Semi-conducting Screen Minimum Installation Bending Radius		19/33 kV 66 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C SANS 6291 SANS 6284-2 15(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor	
Marking & Packing Marking over the sheath Sequentail Length Marking Cable Length Type of Drum		NEELKANTH CABLES , CABLE SIZE, 19/33 kV CU/XLPE/CTS/PVC-FR/PE, ELECTRIC CABLE , YEAR OF MANUFACTURING Shall be provided on outer sheath at every one Meter Multiple of 250/500 or as per Requirement Wooden Drum Fully Packed with Lagging	

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