

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 IEC 60502-2 8.7/15 kV 17.5 KV 90°C 250°C

Three Core 25 Sq.mm up to 300 Sq.mm

Range of Product

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 IEC	C 60228 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 IEC 60502-2		
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 IEC 60502-2		
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 IEC 60502-2		
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 IEC 60502-2		
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 IEC 60502-2		
Armour	The Armour Consists of Round Galvanised Steel Wire for Three Core Cable, Applied over the Inner-sheath. Armour Material Complying with IEC 60502-2		
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 IEC 60502-2. Colour: Black with Red Stripe or as per Requirement		
Technical Charac	teristic		
Voltage Grade		8.7/15 kV	
Test Voltage Temperature Ratin	q	30.5 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C	
Partial Discharge	-	IEC 60885-3	
Resistivity of Semi- Flame Retardent	conducting Screen	IEC 60502-2 IEC 60332 Part-3-24	
Minimum Installatio	n Bending Radius	12(D+d)	
		D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor	
Marking & Packin	g		
Marking over the sl	-	NEELKANTH CABLES , CABLE SIZE, 8.7/15 kV CU/XLPE/CTS/PVC-FR/SWA/PVC-FR ELECTRIC CABLE , YEAR	
Sequentail Length		OF MANUFACTURING Shall be provided on outer sheath at every one Meter	
Cable Length	J.	Multiple of 250/500 or as per Requirement	
Type of Drum		Wooden Drum Fully Packed with Lagging	

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NEELKANT CABLES WE WANT YOU S.		NEELKANTH CABLES LIMITED 1. COMPACTED COPPER CONDUCTOR NEELKANTH CABLES LIMITED 2. CONDUCTOR SEMI-CON NEELKANTH CABLES LIMITED 3. XLPE INSULATION Scopper Tape Screen 6. LHFR PVC BEDDING Steel New Armour 8. LHFR OUTER SHEATH		
		NEELKANTH CABLES LIMITED		
		DATA SHEET		
THREE	E CORE XLPE ARMOURED, REI	DUCED HALOGEN EMIISSION, REDUCED FLAME PROPAGATION (LHFR) MEDIUM VOLTAGE CABLE		
Core,LHFR- PVC I Make	nner Sheathed, Galvanised Steel	Semi-conducting conductor Screen, XLPE Insulated, Semi-conducting Insulation screen, Metallic screen over Individual Wire Armoured, Overall LHFR-PVC Outer Sheathed, Medium Voltage Cable. NEELKANTH CABLES LIMITED		
Reference Standar Voltage Rating (U		As per IEC 60502-2 8.7/15 kV		
Maximum Operatin	ng Voltage (Um)	17.5 Kv		
Operating Tempera		90°C 250°C		
Max. Temp. During				
Range of Product	l	Three Core 25 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			
Construction				
Conductor		cted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying.		
	Conductors Complying with IE	C 60228 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 IEC 60502-2			
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 IEC 60502-2			
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 IEC 60502-2			
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 IEC 60502-2			
Filler (Optional)	PVC or Polypropylene yarn			
Inner Sheath/Bedding	The Inner-sheath Comprises a layer of Extruded as per Requirement PVC-LHFR 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 IEC 60502- 2			
Outer Sheath	The Over all Outer-sheath Comprises a layer of Extruded as per Requirement PVC-LHFR 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 Blue Stripe or as per Requirement			
Technical Charac	teristic			
Voltage Grade		8.7/15 kV 30.5 kV (ar 5 Minute (3.5 Llo r m c)		
Test Voltage Temperature Rating		30.5 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C		
Partial Discharge	-	IEC 60885-3		
	-conducting Screen	IEC 60502-2		
Reduced Flame Re Reduced Halogen		IEC 60332 Part-3-24 SANS 5956		
Minimum Installatio		12(D+d)		
		D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor		

Marking & Packing Marking over the sheath	NEELKANTH CABLES , CABLE SIZE, 8.7/15 kV CU/XLPE/CTS/PVC-LHFR/SWA/PVC-LHFR ELECTRIC CABLE ,
Sequentail Length Marking Cable Length	YEAR OF MANUFACTURING Shall be provided on outer sheath at every one Meter 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, 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 (Polyolefin) Inner Sheathed, Galvanised Steel Wire Armoured, Overall NHLSFR (Polyolefin) Outer Sheathed, Medium Voltage Cable.

Make	NEELKANTH CABLES LIMITED
Reference Standard	As per IEC 60502-2
Voltage Rating (Uo / U)	8.7/15 kV
Maximum Operating Voltage (Um)	17.5 Kv
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

Range of Product

Version

Three Core 25 Sq.mm up to 300 Sq.mm

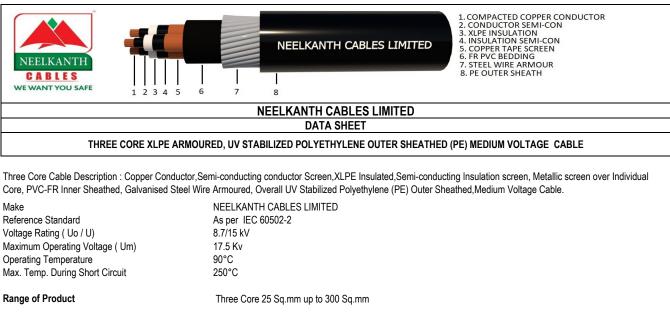
Application

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 IEC 60228 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 IEC 60502-2		
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 IEC 60502-2		eroltage,Switching Overvoltage, and Withstand the Various Voltage
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 IEC 60502 2		
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, an Contribution to Mechanical Protection. as per IEC 60502-2		
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		olyolefin) Applied Under the Armour,Inner-sheath Compound
Armour	The Armour Consists of Round Galvanised Steel Wire for Three Core Cable, Applied over the Inner-sheath. Armour Material Compllying with IEC 60502- 2		
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 Me 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.		sion, to Reduce the contribution of cables to Fire Propagation, and
	Colour: Black with White Stripe or as per Requirement		
Technical Charac	teristic		
Voltage Grade		8.7/15 kV	
Test Voltage		30.5 kV for 5 Minute (3.5 Uo r.m.s)	
Temperature Ratin Partial Discharge	g	-15°C to +90°C IEC 60885-3	
Resistivity of Semi-	conducting Screen	IEC 60502-2	
Reduced Flame Re	•	IEC 60332 Part-3-24	
Zero Halogen Emis		SANS 60754-2	
Minimum Installatio	on Bending Radius	12(D+d) D= Nominal Diameter of the Cable.	
		d=Nominal Diameter of the Conductor	
Marking & Packin	g		
Marking over the sheath			V CU/XLPE/CTS/NHLSFR/SWA/NHLSFR ELECTRIC CABLE , YEAR
Sequentail Length Marking		OF MANUFACTURING Shall be provided on outer sheath at every one	Meter
Cable Length	- ··J	Multiple of 250/500 or as per Requirement	
Type of Drum	Drum Wooden Drum Fully Packed with Lagging		
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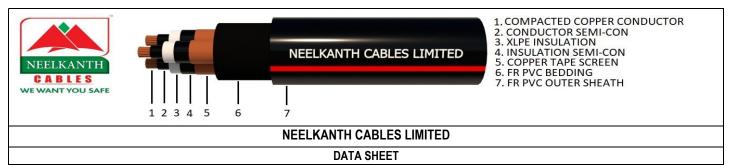


Application

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 IEC 60228 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 e 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 IEC 60502-2		•
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 IEC 60502-2		
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 IEC 60 2		
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 Indiv Cores .Metallic Screen Provide no Electric Field outer side the Cable, An Active Conductor for the Capactive and Zero-Sequence short-circuit curren Contribution to Mechanical Protection. as per IEC 60502-2		
Filler (Optional)	I) 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		plied Under the Armour, Inner-sheath Compound Complying with
Armour	The Armour Consists of Round Galvanised Steel Wire for Three Core Cable, Applied over the Inner-sheath. Armour Material Compliying with SANS 6		lied over the Inner-sheath.Armour Material Compllying with SANS 1411-
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 Met Screen From the Surrounding Medium, to Protact the Mettalic Screen From Corrosion, to Reduce the contribution of cables to Fire Propagation, an 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 Charact	teristic		
Voltage Grade		8.7/15 kV	
Test Voltage Temperature Rating	a	30.5 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C	
Partial Discharge	9	IEC 60885-3	
Resistivity of Semi-conducting Screen		IEC 60502-2	
Minimum Installation Bending Radius		12(D+d)	
		D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor	
Marking & Packin	α		
Marking over the sheath		NEELKANTH CABLES , CABLE SIZE, 8.7/15 k MANUFACTURING	V CU/XLPE/CTS/PVC-FR/SWA/PE, ELECTRIC CABLE , YEAR OF
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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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** As per IEC 60502-2 Voltage Rating (Uo / U) 8.7/15 kV Maximum Operating Voltage (Um) 17.5 Kv **Operating Temperature** 90°C Max. Temp. During Short Circuit 250°C

Range of Product

Three Core 25 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.

	Data Sheet No.	10179	Page 1 of 1
Cable Length Type of Drum		Multiple of 250/500 or as per Requirement Wooden Drum Fully Packed with Lagging	
Sequentail Length Marking		Shall be provided on outer sheath at every one	Meter
Marking over the sheath		NEELKANTH CABLES , CABLE SIZE, 8.7/15 k MANUFACTURING	V CU/XLPE/CTS/PVC-FR/PVC-FR ELECTRIC CABLE , YEAR OF
Marking & Packing	9		
Technical Characteristic Voltage Grade Test Voltage Temperature Rating Partial Discharge Resistivity of Semi-conducting Screen Flame Retardent Minimum Installation Bending Radius		8.7/15 kV 30.5 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C IEC 60885-3 IEC 60502-2 IEC 60332 Part-3-24 15(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor	
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 Mechanical Protection. Outer sheath Compound Complying with IEC 60502-2. Colour: Black with Red Stripe or as per Requirement		
Inner Sheath/Bedding	The Inner-sheath Comprises a layer of Extruded as per Requirement PVC Applied Under the Armour, Inner-sheath Compound Complying with IEC 605 2		
Filler (Optional)	PVC or Polypropylene yarn		
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 Inc Cores .Metallic Screen Provide no Electric Field outer side the Cable, An Active Conductor for the Capactive and Zero-Sequence short-circuit cur Contribution to Mechanical Protection. as per IEC 60502-2		
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 IEC 6 2		
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 IEC 60502-2		eroltage,Switching Overvoltage, and Withstand the Various Voltage
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 exclu 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 IEC 60502-2		
Construction Conductor	Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. Conductors Complying with IEC 60228 Class-2		

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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. LHFR BEDDING 7. LHFR OUTER SHEATH

NEELKANTH CABLES LIMITED

DATA SHEET

THREE CORE XLPE UNARMOURED, REDUCED HALOGEN EMIISSION, REDUCED FLAME PROPAGATION (LHFR) MEDIUM VOLTAGE CABLE

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

NEELKANTH CABLES LIMITED
As per IEC 60502-2
8.7/15 kV
17.5 Kv
90°C
250°C

Range of Product

Three Core 25 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 IEC 60228 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 IEC 60502-2	
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 IEC 60502-2	
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 IEC 60502-2	
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 IEC 60502-2	
Filler (Optional)	PVC or Polypropylene yarn	
Inner Sheath/Bedding	The Inner-sheath Comprises a layer of Extruded as per Requirement PVC-LHFR 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 PVC-LHFR 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 Blue Stripe or as per Requirement	
Technical Characteristic Voltage Grade Test Voltage Temperature Rating Partial Discharge Resistivity of Semi-conducting Screen Reduced Flame Retardent Reduced Halogen Emission Minimum Installation Bending Radius		8.7/15 kV 30.5 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C IEC 60885-3 IEC 60502-2 IEC 60332 Part-3-24 SANS 5956 15(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor
Marking & Packing		NEELKANTH CABLES , CABLE SIZE, 8.7/15 kV CU/XLPE/CTS/PVC-LHFR/PVC-LHFR ELECTRIC CABLE , YEAR OF
Marking over the sheath Sequentail Length Marking Cable Length Type of Drum		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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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 IEC 60502-2
Voltage Rating (Uo / U)	8.7/15 kV
Maximum Operating Voltage (Um)	17.5 Kv
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

Range of Product

Version

Three Core 25 Sq.mm up to 300 Sq.mm

Application

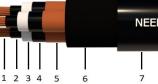
These Medium Voltage Three Core Cables are Designed for Electricity Power Distributation ,Suitable for Installation in Power Supply Stations,Commercial ,Industrial and Urban Residential Networks,Indoors and in Cable Ducts,Outdoors,Undergrounds and as well as for Installation on Cable Trays for industries, 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 IEC 60228 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 IEC 60502-2			
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 IEC 60502-2			
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 IEC 60502-2			
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 IEC 60502-2			
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 Mettal 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	r 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		8.7/15 kV 30.5 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C IEC 60885-3 IEC 60502-2 IEC 60332 Part-3-24 SANS 60754-2 15(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor		
Marking & Packing	3			
Marking over the sheath		NEELKANTH CABLES , CABLE SIZE, 8.7/15 kV CU/XLPE/CTS/NHLSFR/NHLSFR ELECTRIC CABLE , YEAR OF MANUFACTURING		
Sequentail Length Marking Cable Length Type of Drum		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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Issue Date: 29/04/2021





NEELKANTH CABLES LIMITED

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

Issue Date: 29/04/2021

NEELKANTH CABLES LIMITED

DATA SHEET

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 IEC 60502-2
Voltage Rating (Uo / U)	8.7/15 kV
Maximum Operating Voltage (Um)	17.5 Kv
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

Range of Product

Three Core 25 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 IEC 60228 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 IEC 60502-2			
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 IEC 60502-2			
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 IEC 60502-2			
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 IEC 60502-2			
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 iec 60502-2			
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 Requirem		rement		
Technical Characteristic Voltage Grade Test Voltage Temperature Rating Partial Discharge Resistivity of Semi-conducting Screen Minimum Installation Bending Radius		8.7/15 kV 30.5 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C IEC 60885-3 IEC 60502-2 15(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor		
Marking & Packin	g			
Marking over the sheath		NEELKANTH CABLES , CABLE SIZE, 8.7/15 kV CU/XLPE/CTS/PVC-FR/PE, ELECTRIC CABLE , YEAR OF MANUFACTURING		
Sequentail Length Marking Cable Length Type of Drum		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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