

# NEELKANTH CABLES LIMITED

#### DATA SHEET

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

Single Core Cable Description : Copper Conductor, Semi-conducting conductor Screen, XLPE Insulated, Semi-conducting Insulation screen, Metallic screen over Individual Core, FR- PVC Inner Sheathed, Aluminium 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 6/10 kV 12 kV 90°C 250°C

Single Core 10 Sq.mm up to 1000 Sq.mm

#### **Range of Product**

#### Application

These Medium Voltage Single 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 IEC	cted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. 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- Field Stress During the Cable S	Linked Polyethylene )Rated Voltage, Lightning Overoltage,Switching Overvoltage, and Withstand the Various Voltage ervice Life.as per IEC 60502-2
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 IEC
Metallic Screen	Individual Cores .Metallic Scree	ist of either Copper Tapes or a Concentric layer of Copper Wires .The Metallic Layer may be applied over the n Provide no Electric Field outer side the Cable,An Active Conductor for the Capactive and Zero-Sequence short-circuit hanical 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 IEt Bedding 60502-2	
Armour	The Armour Consists of Round	Aluminium Wire for Single Core Cable, Applied over the Inner-sheath.Armour Material Compllying with IEC 60502-2
the Surrounding Medium, to Protac		prises a layer of Extruded as per Requirement PVC and Applied Over the Armour to Insulate the Mettalic Screen From tact the Mettalic Screen From Corrosion, to Reduce the contribution of cables to Fire Propagation, and Contribute to neath Compound Complying with SANS IEC 60502-2. r as per Requirement
Technical CharacteristicVoltage Grade6/10 kVTest Voltage21 kV for 5 Minute ( 3.5 Uo r.m.s)Temperature Rating-15°C to +90°CPartial DischargeIEC 60885-3Resistivity of Semi-conducting ScreenIEC 60502-2Flame RetardentIEC 60332 Part-3-24Minimum Installation Bending Radius15(D+d)D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conduct		21 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)
Marking over the sneath Sequentail Length Marking Cable Length		NEELKANTH CABLES , CABLE SIZE, 6/10 kV CU/XLPE/CTS/PVC-FR/AWA/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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NEELKANTH C A B L E S WE WANT YOU SAFE		NEELKANTH CABLES LIMITED	<ol> <li>COMPACTOR COPPER CONDUCTOR</li> <li>CONDUCTOR SEMI-CON</li> <li>XLPE INSULATION</li> <li>INSULATION SEMI-CON</li> <li>COPPER TAPE SCREEN</li> <li>LHFR PVC INNER SHEATH</li> <li>ALUMINIUM WIRE ARMOUR</li> <li>LHFR PVC OUTER SHEATH</li> </ol>
		NEELKANTH CABLES LIMITED	
		DATA SHEET	
SINGLE COR	RE XLPE ARMOURED, REDUCED HAL	OGEN EMIISSION, REDUCED FLAME PROPAGAT	ION (LHFR) MEDIUM VOLTAGE CABLE
Single Core Cable Description : Copper Conductor, Semi-conductor ground conductor Screen, XLPE Insulated, Semi-conducting Insulation screen, Metallic screen over Individual			

Core,LHFR- PVC Inner Sheathed, Aluminium Wire Armoured, Overall LHFR-PVC Outer Sheathed,Medium Voltage Cable. Make NEELKANTH CABLES LIMITED

Reference Standard	As per IEC 60502-2
Voltage Rating ( Uo / U)	6/10 kV
Maximum Operating Voltage (Um)	12 kV
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

# Range of Product

Single Core 10 Sq.mm up to 1000 Sq.mm

#### Application

These Medium Voltage Single 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.

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Type of Drum		Wooden Drum Fully Packed with Lagging		
Sequentail Length Cable Length	Marking	Shall be provided on outer sheath at every one Multiple of 250/500 or as per Requirement	Meter	
Marking over the sheath		NEELKANTH CABLES , CABLE SIZE, 6/10 kV YEAR OF MANUFACTURING	CU/XLPE/CTS/PVC-LHFR/AWA/PVC-LHFR ELECTRIC CABLE ,	
Marking & Packin	g			
		D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor		
Minimum Installation Bending Radius		15(D+d) D= Naminal Diamater of the Cable		
Reduced Halogen		SANS 5956		
Flame Retardent		IEC 60332 Part-3-24		
Resistivity of Semi-	-conducting Screen	IEC 60502-2		
Partial Discharge	•	IEC 60885-3		
Temperature Ratin	g	-15°C to +90°C		
Test Voltage		21 kV for 5 Minute ( 3.5 Uo r.m.s)		
Voltage Grade		6/10 kV		
Technical Charac	teristic			
	Colour: Black with Blue Stripe o	r as per Requirement		
		sheath Compound Complying with SANS 1411-2		
			Reduce the contribution of cables to Fire Propagation, and Contribute	
Outer Sheath	The Over all Outer-sheath Com	nrises a laver of Extruded as ner Requirement P	VC-LHFR and Applied Over the Armour to Insulate the Mettalic Screen	
Amou			ver the inner-sheath.Annour material Compliging with IEC 00002-2	
Armour	The Armour Consists of Round Aluminium Wire for Single Core Cable, Applied over the Inner-sheath Armour Material Compllying with IEC 6050		ver the Inner-sheath Armour Material Compliving with IEC 60502-2	
Sheath/Bedding	SANS 1411-2	ayer or Extruded as per Requirement PVO-LHFM	Applied Under the Armour, Inner-sheath Compound Complying with	
Inner	The longr sheath Comprises a	aver of Extruded as par Bequirement DV/C LUE	Applied Under the Armour Inner sheeth Compared Completes with	
Filler (Optional)	PVC or Polypropylene yarn			
		n Provide no Electric Field outer side the Cable, hanical Protection. as per IEC 60502-2	An Active Conductor for the Capactive and Zero-Sequence short-circuit	
Metallic Screen			of Copper Wires .The Metallic Layer may be applied over the	
Screen	60502-2			
Core Semi- Conducting	Concentration of electric field of		Tightly Fitted to the Insulation to Exclude all air Voids,Prevent ni-Conductor. Semi-Conducting Compound Complying with IEC	
Care Sami	Ū.	·	Tighthy Fitted to the Inculation to Evolution of air Valida Dravant	
Insulation	The Insulation of XLPE (Cross- Field Stress During the Cable S		veroltage,Switching Overvoltage, and Withstand the Various Voltage	
Screen	Conducting Compound Complyi	ing with IEC 60502-2		
Inner Semi- Conducting	,	0	ric Field at the Conductor and Firmly Bonded to the Insulation to between the Insulation and the Inner Semi-Conductor. Semi-	
	Conductors Complying with IEC	5 60228 Class-2		
CONTRACTOR			i and withstand fulling success during dade Laying.	
		sted Round Stranded Conductors to carry Curren	t and withstand Pulling Stresses During Cable Laying.	
Construction				

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#### NEELKANTH CABLES LIMITED DATA SHEET

# SINGLE CORE XLPE ARMOURED, ZERO HALOGEN EMISSION, REDUCED SMOKE EMISSION, REDUCED FLAME PROPAGATION (NHLSFR) MEDIUM VOLTAGE CABLE

Single Core Cable Description : Copper Conductor, Semi-conducting conductor Screen, XLPE Insulated, Semi-conducting Insulation screen, Metallic screen over Individual Core, NHLSFR (Polyolefin) Inner Sheathed, Aluminium 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)	6/10 kV
Maximum Operating Voltage (Um)	12 kV
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

#### **Range of Product**

Single Core 10 Sq.mm up to 1000 Sq.mm

# Application

These Medium Voltage Single 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 Compact Conductors Complying with IEC	ted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. 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-L Field Stress During the Cable Se		veroltage,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 IEC 60502-	
Metallic Screen		o Electric Field outer side the Cable, An Active Co	f Copper Wires .The Metallic Layer may be applied over the Individual onductor for the Capactive and Zero-Sequence short-circuit current,and	
Filler (Optional)	PVC or Polypropylene yarn			
Inner Sheath/Bedding	The Inner-sheath Comprises a la Complying with SANS 1411-5	yer of Extruded as per Requirement NHLSFR (P	olyolefin) Applied Under the Armour, Inner-sheath Compound	
Armour	The Armour Consists of Round Aluminium Wire for Single Core Cable, Applied over the Inner-sheath. Armour Material Compllying with SANS 1411-6		er the Inner-sheath.Armour Material Compllying with SANS 1411-6	
Outer Sheath	Sheath The Over all Outer-sheath Comprises a layer of Extruded as per Requirement NHLSFR (Polyolefin) and Applied Over the Armour to Insulate the Screen From the Surrounding Medium, to Protact the Mettalic Screen From Corrosion, to Reduce the contribution of cables to Fire Propagation, a Contribute to Mechanical Protection. Outer sheath Compound Complying with SANS 1411-5. Colour: Black with White Stripe or as per Requirement		sion, to Reduce the contribution of cables to Fire Propagation, and	
Technical Charge				
Technical Charact Voltage Grade	lensuc	6/10 kV		
Test Voltage		21 kV for 5 Minute ( 3.5 Uo r.m.s)		
Temperature Rating	g	-15°C to +90°C		
Partial Discharge	conducting Scroon	IEC 60885-3 IEC 60502-2		
Resistivity of Semi-conducting Screen Reduced Flame Retardent		IEC 60332 Part-3-24		
Zero Halogen Emission		SANS 60754-2		
Minimum Installation Bending Radius		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, 6/10 kV MANUFACTURING	CU/XLPE/CTS/NHLSFR/AWA/NHLSFR 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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# DATA SHEET

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

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

NEELKANTH CABLES LIMITED
As per IEC 60502-2
6/10 kV
12 kV
90°C
250°C

Range of Product

Single Core 10 Sq.mm up to 1000 Sq.mm

#### Application

These Medium Voltage Single 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 Compa Conductors Complying with IE	cted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. 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
Core Semi- Conducting Screen		cting Screen over the Insulation . The Screen is Tightly Fitted to the Insulation to Exclude all air Voids, Prevent f the interface between the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with IEC
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 SANS 1411-2	
Armour	The Armour Consists of Round Aluminium Wire for Single Core Cable, Applied over the Inner-sheath. Armour Material Compliying 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 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 Require	ement
	de     6/10 kV       e     21 kV for 5 Minute ( 3.5 Uo r.m.s)       e Rating     -15°C to +90°C	
Sequentail Length MarkingShallCable LengthMulti		NEELKANTH CABLES , CABLE SIZE, 6/10 kV CU/XLPE/CTS/PVC-FR/AWA/PE, ELECTRIC CABLE , YEAR OF 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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# **NEELKANTH CABLES LIMITED**

DATA SHEET

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

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

Make	NEELKANTH CABLES LIMITED
Reference Standard	As per IEC 60502-2
Voltage Rating ( Uo / U)	6/10 kV
Maximum Operating Voltage (Um)	12 kV
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

#### **Range of Product**

Single Core 10 Sq.mm up to 1000 Sq.mm

#### Application

These Medium Voltage Single 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 IEC	cted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. C 60228 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-Conducting 60502-2
Insulation	The Insulation of XLPE ( Cross- Field Stress During the Cable S	Linked Polyethylene )Rated Voltage, Lightning Overoltage,Switching Overvoltage, and Withstand the Various Voltage ervice Life.as per IEC 60502-2
Core Semi- Conducting Screen		cting Screen over the Insulation . The Screen is Tightly Fitted to the Insulation to Exclude all air Voids, Prevent the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with IEC 60502-
Metallic Screen		ist of either Copper Tapes or a Concentric layer of Copper Wires .The Metallic Layer may be applied over the Individual no Electric Field outer side the Cable, An Active Conductor for the Capactive and Zero-Sequence short-circuit current, and ection. as per IEC 60502-2
Filler (Optional)	PVC or Polypropylene yarn	
Outer Sheath	the Surrounding Medium,to Prot	prises a layer of Extruded as per Requirement PVC and Applied Over the Armour to Insulate the Mettalic Screen From tact the Mettalic Screen From Corrosion, to Reduce the contribution of cables to Fire Propagation, and Contribute to neath Compound Complying with IEC 60502-2.
Technical Charact Voltage Grade Test Voltage Temperature Rating Partial Discharge Resistivity of Semi- Flame Retardent Minimum Installatio	g conducting Screen	6/10 kV 21 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 20(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor
Marking & Packing Marking over the sh Sequentail Length Cable Length Type of Drum	neath	NEELKANTH CABLES , CABLE SIZE, 6/10 kV CU/XLPE/CTS/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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NEELKANTH CABLES LIMITED

1. COMPACTED COPPER CONDUCTOR 2. CONDUCTOR SEMI-COM 3. XLPE INSULATION 4. INSULATION SEMI-CON 5. COPPER TAPE SCREEN 6. LHFR PVC OUTER SHEATH

# **NEELKANTH CABLES LIMITED**

# DATA SHEET

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

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

Make	NEELKANTH CABLES LIMITED
Reference Standard	As per IEC 60502-2
Voltage Rating ( Uo / U)	6/10 kV
Maximum Operating Voltage (Um)	12 kV
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

3 4

1 2

### Range of Product

Single Core 10 Sq.mm up to 1000 Sq.mm

6

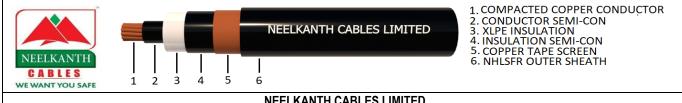
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#### Application

These Medium Voltage Single 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 IEC	cted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. C 60228 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-Conducting 60502-2
Insulation	The Insulation of XLPE ( Cross- Field Stress During the Cable S	Linked Polyethylene )Rated Voltage, Lightning Overoltage,Switching Overvoltage, and Withstand the Various Voltage ervice Life.as per IEC 60502-2
Core Semi- Conducting Screen		sting 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 IEC 60502-
Metallic Screen		ist of either Copper Tapes or a Concentric layer of Copper Wires .The Metallic Layer may be applied over the Individual no Electric Field outer side the Cable, An Active Conductor for the Capactive and Zero-Sequence short-circuit current, and ection. as per IEC 60502-2
Filler (Optional)	PVC or Polypropylene yarn	
Outer Sheath	From the Surrounding Medium,t	prises a layer of Extruded as per Requirement PVC-LHFR and Applied Over the Armour to Insulate the Mettalic Screen to Protact the Mettalic Screen From Corrosion, to Reduce the contribution of cables to Fire Propagation, and Contribute to neath Compound Complying with SANS 1411-2. r as per Requirement
Technical Charact Voltage Grade Test Voltage Temperature Rating Partial Discharge Resistivity of Semi- Reduced Flame Re Reduced Halogen B Minimum Installatio	g conducting Screen stardent Emission	6/10 kV 21 kV for 5 Minute ( 3.5 Uo r.m.s) -15°C to +90°C IEC 60885-3 IEC 60502-2 SANS 60332 Part-3-24 SANS 5956 20(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor
Marking & Packing Marking over the sh Sequentail Length I Cable Length Type of Drum	neath	NEELKANTH CABLES , CABLE SIZE, 6/10 kV CU/XLPE/CTS/PVC-LHFR 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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### NEELKANTH CABLES LIMITED DATA SHEET

#### SINGLE CORE XLPE UNARMOURED, ZERO HALOGEN EMISSION, REDUCED SMOKE EMISSION, REDUCED FLAME PROPAGATION (NHLSFR) MEDIUM VOLTAGE CABLE

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

Make	NEELKANTH CABLES LIMITED
Reference Standard	As per IEC 60502-2
Voltage Rating ( Uo / U)	6/10 kV
Maximum Operating Voltage (Um)	12 kV
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

#### **Range of Product**

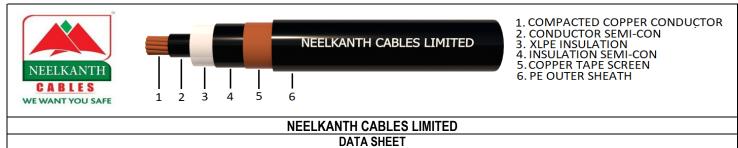
Single Core 10 Sq.mm up to 1000 Sq.mm

#### Application

These Medium Voltage Single 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 Compar Conductors Complying with IEC	cted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. C 60228 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 IEC 60502-2
Insulation		-Linked Polyethylene )Rated Voltage, Lightning Overoltage,Switching Overvoltage, and Withstand the Various Voltage Service Life.as per IEC 60502-2
Core Semi- Conducting Screen		cting Screen over the Insulation . The Screen is Tightly Fitted to the Insulation to Exclude all air Voids, Prevent f the interface between the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with IEC
Metallic Screen	Individual Cores .Metallic Scree	ist of either Copper Tapes or a Concentric layer of Copper Wires .The Metallic Layer may be applied over the on Provide no Electric Field outer side the Cable, An Active Conductor for the Capactive and Zero-Sequence short-circuit shanical Protection. as per IEC 60502-2
Filler (Optional)	PVC or Polypropylene yarn	
Outer Sheath	Mettalic Screen From the Surro	prises a layer of Extruded as per Requirement NHLSFR (Polyolefin) and Applied Over the Armour to Insulate the unding Medium,to Protact the Mettalic Screen From Corrosion,to Reduce the contribution of cables to Fire Mechanical Protection. Outer sheath Compound Complying with SANS 1411-5. or as per Requirement
Technical Charact Voltage Grade Test Voltage Temperature Ratin Partial Discharge Resistivity of Semi- Reduced Flame Re Zero Halogen Emis Minimum Installatio	g conducting Screen etardent ision	6/10 kV 21 kV for 5 Minute ( 3.5 Uo r.m.s) -15°C to +90°C IEC 60885-3 IEC 60502-2 SANS 60332 Part-3-24 SANS 60754-2 20(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, 6/10 kV CU/XLPE/CTS/NHLSFR 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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# SINGLE CORE XLPE UNARMOURED, UV STABILIZED POLYETHYLENE OUTER SHEATHED (PE) MEDIUM VOLTAGE CABLE

Single Core Cable Description : Copper Conductor, Semi-conducting conductor Screen, XLPE Insulated, Semi-conducting Insulation screen, Metallic screen over Individual Core, 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)	6/10 kV
Maximum Operating Voltage (Um)	12 kV
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

#### **Range of Product**

Single Core 10 Sq.mm up to 1000 Sq.mm

#### Application

These Medium Voltage Single 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 Compace Conductors Complying with IEC	cted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. 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- Field Stress During the Cable S	Linked Polyethylene )Rated Voltage, Lightning Overoltage,Switching Overvoltage, and Withstand the Various Voltage ervice Life.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 60502-2		
Metallic Screen		ist of either Copper Tapes or a Concentric layer of Copper Wires .The Metallic Layer may be applied over the Individual 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		
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 Require	ment	
Technical Charact Voltage Grade Test Voltage Temperature Ratin Partial Discharge Resistivity of Semi- Minimum Installatio	g -conducting Screen	6/10 kV 21 kV for 5 Minute ( 3.5 Uo r.m.s) -15°C to +90°C IEC 60885-3 IEC 60502-2 20(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor	
Marking & Packin	g		
Marking over the sl	heath	NEELKANTH CABLES , CABLE SIZE, 6/10 kV CU/XLPE/CTS/PE, ELECTRIC CABLE , YEAR OF MANUFACTURING	
Sequentail Length Cable Length Type of Drum	Marking	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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