

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 8.7/15 kV 17.5 kV 90°C 250°C

Range of Product

Application

Single Core 25 Sq.mm up to 1000 Sq.mm

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	,	ting 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- ng 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	3	ting 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	st 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 IEC 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
Armour Outer Sheath	The Over all Outer-sheath Com the Surrounding Medium,to Pro	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 the teath Compound Complying with SANS IEC 60502-2.
Outer Sheath Technical Charac	The Over all Outer-sheath Com the Surrounding Medium,to Pro Mechanical Protection. Outer sh Colour: Black with Red Stripe or	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 the teath Compound Complying with SANS IEC 60502-2.
Outer Sheath	The Over all Outer-sheath Com the Surrounding Medium,to Pro Mechanical Protection. Outer sh Colour: Black with Red Stripe or	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 the teath Compound Complying with SANS IEC 60502-2.
Outer Sheath Technical Charac Voltage Grade Test Voltage Temperature Ratin	The Over all Outer-sheath Com the Surrounding Medium,to Pro Mechanical Protection. Outer sh Colour: Black with Red Stripe or teristic	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 the eath Compound Complying with SANS IEC 60502-2. • as per Requirement 8.7/15 kV 30.5 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C
Outer Sheath Technical Charac Voltage Grade Test Voltage Temperature Ratin Partial Discharge Resistivity of Semi	The Over all Outer-sheath Com the Surrounding Medium,to Pro Mechanical Protection. Outer sh Colour: Black with Red Stripe or teristic	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 the to the compound Complying with SANS IEC 60502-2. * as per Requirement 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
Outer Sheath Technical Charac Voltage Grade Test Voltage Temperature Ratin Partial Discharge Resistivity of Semi Flame Retardent	The Over all Outer-sheath Com the Surrounding Medium, to Pro Mechanical Protection. Outer sh Colour: Black with Red Stripe or teristic	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 the to the compound Complying with SANS IEC 60502-2. * as per Requirement 8.7/15 kV 30.5 kV for 5 Minute (3.5 Uo r.m.s) -15°C to +90°C IEC 60885-3
Outer Sheath Technical Charac Voltage Grade Test Voltage Temperature Ratin Partial Discharge Resistivity of Semi	The Over all Outer-sheath Com the Surrounding Medium, to Pro Mechanical Protection. Outer sh Colour: Black with Red Stripe or teristic	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 the the Compound Complying with SANS IEC 60502-2. * as per Requirement 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
Outer Sheath Technical Charac Voltage Grade Test Voltage Temperature Ratin Partial Discharge Resistivity of Semi Flame Retardent	The Over all Outer-sheath Com the Surrounding Medium,to Pro Mechanical Protection. Outer sh Colour: Black with Red Stripe of teristic -conducting Screen on Bending Radius	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 the the Compound Complying with SANS IEC 60502-2. Tas per Requirement 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 Technical Charace Voltage Grade Test Voltage Temperature Ratin Partial Discharge Resistivity of Semi Flame Retardent Minimum Installation	The Over all Outer-sheath Com the Surrounding Medium, to Pro Mechanical Protection. Outer sh Colour: Black with Red Stripe or teristic g -conducting Screen on Bending Radius	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 teath Compound Complying with SANS IEC 60502-2. • as per Requirement 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 NEELKANTH CABLES , CABLE SIZE, 8.7/15 kV CU/XLPE/CTS/PVC-FR/AWA/PVC-FR ELECTRIC CABLE , YEAR OF MANUFACTURING
Outer Sheath Technical Charac Voltage Grade Test Voltage Temperature Ratin Partial Discharge Resistivity of Semi Flame Retardent Minimum Installation Marking & Packin Marking over the s Sequentail Length	The Over all Outer-sheath Com the Surrounding Medium, to Pro Mechanical Protection. Outer sh Colour: Black with Red Stripe or teristic g -conducting Screen on Bending Radius	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 teath Compound Complying with SANS IEC 60502-2. • as per Requirement 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 Cable, d=Nominal Diameter of the Conductor NEELKANTH CABLES , CABLE SIZE, 8.7/15 kV CU/XLPE/CTS/PVC-FR/AWA/PVC-FR ELECTRIC CABLE , YEAR OF MANUFACTURING Shall be provided on outer sheath at every one Meter
Outer Sheath Technical Charace Voltage Grade Test Voltage Temperature Ratin Partial Discharge Resistivity of Semi Flame Retardent Minimum Installation Marking & Packin Marking over the s	The Over all Outer-sheath Com the Surrounding Medium, to Pro Mechanical Protection. Outer sh Colour: Black with Red Stripe or teristic g -conducting Screen on Bending Radius	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 teath Compound Complying with SANS IEC 60502-2. • as per Requirement 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 NEELKANTH CABLES , CABLE SIZE, 8.7/15 kV CU/XLPE/CTS/PVC-FR/AWA/PVC-FR ELECTRIC CABLE , YEAR OF MANUFACTURING

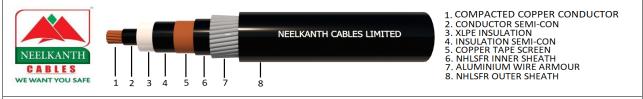
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NEELKANTT CABLES WE WANT YOU S/	AFE	NEELKANTH CABLES LIMITED 1 6 7	1. COMPACTOR COPPER CONDUCTOR 2. CONDUCTOR SEMI-CON 3. XLPE INSULATION 4. INSULATION SEMI-CON 5. COPPER TAPE SCREEN 6. LHFR PVC INNER SHEATH 7. ALUMINIUM WIRE ARMOUR 8. LHFR PVC OUTER SHEATH	
		NEELKANTH CABLES LIMITED		
CINCL I		DATA SHEET DUCED HALOGEN EMIISSION, REDUCED FLAME PROPAGA		
		·		
Single Core Cable Description : Copper Conductor,Semi-conducting conductor Screen,XLPE Insulated,Semi-conducting Insulation screen, Metallic screen over Individ 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) 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		Single Core 25 Sq.mm up to 1000 Sq.mm		
Application These Medium Vol	tage Single Core Cables are De	signed for Electricity Power Distributation ,Suitable for Installation ucts,Outdoors,Undergrounds and as well as for Installation on Ca		
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 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	Individual Cores .Metallic Scree	ist of either Copper Tapes or a Concentric layer of Copper Wire on Provide no Electric Field outer side the Cable, An Active Condu chanical 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 Aluminium Wire for Single Core Cable, Applied over the Inner-sheath. Armour Material Compliying 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 Screer 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 Voltage Grade Test Voltage Temperature Ratin Partial Discharge Resistivity of Semi- Flame Retardent Reduced Halogen Minimum Installatic	g conducting Screen Emission	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 Conductor
Marking & Packing	NEELKANTH CABLES , CABLE SIZE, 8.7/15 kV CU/XLPE/CTS/PVC-LHFR/AWA/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

D= Nominal Diameter of the Cable,

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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)	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

Single Core 25 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 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-Li Field Stress During the Cable Ser	,	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		Electric Field outer side the Cable, An Active C	of 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 lay Complying with SANS 1411-5	ver of Extruded as per Requirement NHLSFR (F	olyolefin) Applied Under the Armour, Inner-sheath Compound
Armour	The Armour Consists of Round A	luminium Wire for Single Core Cable, Applied ov	rer 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 NHLSFR (Polyolefin) and Applied Over the Armour to Insulate the Mett. 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 CharacteristicVoltage Grade8.7/15 kVTest Voltage30.5 kV for 5 Minute (3.5 Uo r.m.s)Temperature Rating-15°C to +90°CPartial DischargeIEC 60885-3Resistivity of Semi-conducting ScreenIEC 60502-2Reduced Flame RetardentIEC 60332 Part-3-24Zero Halogen EmissionSANS 60754-2Minimum Installation Bending Radius15(D+d)D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor			
Marking & Packing	g		
Marking over the sh		NEELKANTH CABLES , CABLE SIZE, 8.7/15 kV CU/XLPE/CTS/NHLSFR/AWA/NHLSFR ELECTRIC CABLE , YEAR OF MANUFACTURING	
Sequentail Length M Cable Length Type of Drum	Marking	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

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.

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
Max. Temp. During Short Circuit	250°C

Range of Product

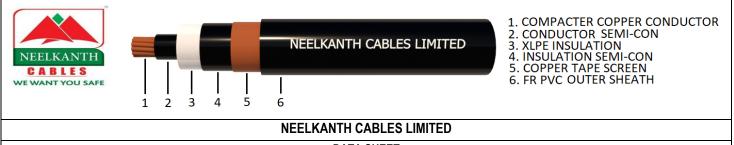
Single Core 25 Sq.mm up to 1000 Sq.mm

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-Condu exclude all air voids ,and Preve Conducting Compound Comply	cting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to ent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi- ring 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	Individual Cores .Metallic Scree	sist of either Copper Tapes or a Concentric layer of Copper Wires .The Metallic Layer may be applied over the en Provide no Electric Field outer side the Cable,An Active Conductor for the Capactive and Zero-Sequence short-circuit chanical 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 Compllying with SANS 1411-6	
Outer Sheath	Screen From the Surrounding	nprises a layer of Extruded as per Requirement Polyethylene (PE) and Applied Over the Armour to Insulate the Mettalic Medium,to Protact the Mettalic Screen From Corrosion,to Reduce the contribution of cables to Fire Propagation,and ction. Outer sheath Compound Complying with SANS 1411-7.
	Colour: Black or as per Require	ement
Technical CharacteristicVoltage Grade8.7/15 kVTest Voltage30.5 kV for 5 Minute (3.5 Uo r.m.s)Temperature Rating-15°C to +90°CPartial DischargeIEC 60885-3Resistivity of Semi-conducting ScreenIEC 60502-2Minimum Installation Bending Radius15(D+d)D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor		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,
Marking & Packin Marking over the s Sequentail Length Cable Length Type of Drum	heath	NEELKANTH CABLES , CABLE SIZE, 8.7/15 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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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.

Range of Product

Single Core 25 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		ting 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	the Surrounding Medium,to Prof	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	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 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, 8.7/15 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

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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)	8.7/15 kV
Maximum Operating Voltage (Um)	17.5 kV
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

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5

Range of Product

Single Core 25 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	sted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. C 60228 Class-2
Inner Semi- Conducting Screen		ting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to the 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 o Protact the Mettalic Screen From Corrosion,to Reduce the contribution of cables to Fire Propagation,and Contribute to leath Compound Complying with SANS 1411-2. r as per Requirement
Technical Charact Voltage Grade Test Voltage Temperature Ratin Partial Discharge Resistivity of Semi- Reduced Flame Re Reduced Halogen I Minimum Installatio	g conducting Screen etardent Emission	8.7/15 kV 30.5 kV for 5 Minute (3.5 Uo r.m.s) 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 Cable Length Type of Drum	neath	NEELKANTH CABLES , CABLE SIZE, 8.7/15 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)	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

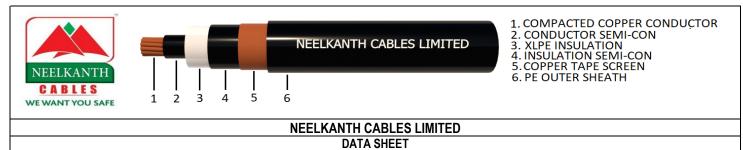
Single Core 25 Sq.mm up to 1000 Sq.mm

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 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- 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		ting 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	
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 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 Characteristic8.7/15 kVVoltage Grade30.5 kV for 5 Minute (3.5 Uo r.m.s)Test 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 60502-2Reduced Flame RetardentSANS 60332 Part-3-24Zero Halogen EmissionSANS 60754-2Minimum Installation Bending Radius20(D+d)D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor		30.5 kV for 5 Minute (3.5 Uo r.m.s) 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,
Marking & Packin Marking over the sl Sequentail Length Cable Length Type of Drum	heath	NEELKANTH CABLES , CABLE SIZE, 8.7/15 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)	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

Single Core 25 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 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- 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	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 Capacitive and Zero-Sequence short-circuit current, and	
Filler (Optional)	PVC or Polypropylene yarn	
Outer Sheath	eath 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 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) 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, 8.7/15 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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