



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

Make	NEELKANTH CABLES LIMITED
Reference Standard	As per SANS:1339:2017
Voltage Rating ( Uo / U)	6.35/11 kV
Maximum Operating Voltage ( Um)	12 kV
Operating Temperature	90°C
Max. Temp. During Short Circuit	250°C

**Range of Product** Three Core 16 Sq.mm up to 300 Sq.mm

**Application**

These Medium Voltage Three Core Cores Cables are Designed for Electricity Power Distribution ,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**

<b>Conductor</b>	Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. Conductors Complying with SANS 1411-1 Class-2
<b>Inner Semi-Conducting Screen</b>	Extruded Layer of Semi-Conducting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to exclude all air voids ,and Prevent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339
<b>Insulation</b>	The Insulation of XLPE ( Cross-Linked Polyethylene )Rated Voltage, Lightning Overvoltage,Switching Overvoltage, and Withstand the Various Voltage Field Stress During the Cable Service Life.as per SANS 1411-4
<b>Core Semi-Conducting Screen</b>	Extruded Layer of Semi-Conducting Screen over the Insulation . The Screen is Tightly Fitted to the Insulation to Exclude all air Voids,Prevent Concentration of electric field of the interface between the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339
<b>Metallic Screen</b>	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
<b>Filler (Optional)</b>	PVC or Polypropylene yarn
<b>Inner Sheath/Bedding</b>	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
<b>Outer Sheath</b>	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 Protect the Mettalic Screen From Corrosion,to Reduce the contribution of cables to Fire Propagation,and Contribute to Mechanical Protection. Outer sheath Compound Complying with SANS 1411-7.

Colour: Black or as per Requirement

**Technical Characteristic**

Voltage Grade	6.35/11 kV
Test Voltage	22 kV for 5 Minute ( 3.5 Uo r.m.s)
Temperature Rating	-15°C to +90°C
Partial Discharge	SANS 6291
Resistivity of Semi-conducting Screen	SANS 6284-2
Minimum Installation Bending Radius	15(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor

**Marking & Packing**

Marking over the sheath	NEELKANTH CABLES , CABLE SIZE, 6.35/11 kV CU/XLPE/CTS/PVC-FR/PE, ELECTRIC CABLE , YEAR OF MANUFACTURING
Sequentail Length Marking	Shall be provided on outer sheath at every one Meter
Cable Length	Multiple of 250/500 or as per Requirement
Type of Drum	Wooden Drum Fully Packed with Lagging

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