



1. COMPACTED COPPER CONDUCTOR
2. CONDUCTOR SEMI-CON
3. XLPE INSULATION
4. INSULATION SEMI-CON
5. COPPER TAPE SCREEN
6. FR PVC INNER SHEATH
7. ALUMINIUM WIRE ARMOUR
8. FR PVC OUTER SHEATH

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.

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

Range of Product Single Core 50 Sq.mm up to 1000 Sq.mm

Application

These Medium Voltage Single Core 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

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|-------------------------------------|--|
| Conductor | Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. Conductors Complying with SANS 1411-1 Class-2 |
| Inner Semi-Conducting Screen | Extruded Layer of Semi-Conducting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to exclude all air voids ,and Prevent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339 |
| Insulation | The Insulation of XLPE (Cross-Linked Polyethylene)Rated Voltage, Lightning Overvoltage, Switching Overvoltage, and Withstand the Various Voltage Field Stress During the Cable Service Life. as per SANS 1411-4 |
| Core Semi-Conducting Screen | Extruded Layer of Semi-Conducting Screen over the Insulation . The Screen is Tightly Fitted to the Insulation to Exclude all air Voids, Prevent Concentration of electric field of the interface between the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339 |
| Metallic Screen | The Metallic Screen Shall Consist of either Copper Tapes or a Concentric layer of Copper Wires .The Metallic Layer may be applied over the Individual Cores .Metallic Screen Provide no Electric Field outer side the Cable, An Active Conductor for the Capacitive and Zero-Sequence short-circuit current, and Contribution to Mechanical Protection. as per SANS 1339 |
| Filler (Optional) | PVC or Polypropylene yarn |
| Inner Sheath/Bedding | The Inner-sheath Comprises a layer of Extruded as per Requirement PVC 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 Complying with SANS 1411-6 |
| Outer Sheath | The Over all Outer-sheath Comprises a layer of Extruded as per Requirement PVC 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 1411-2. Colour: Black with Red Stripe or as per Requirement |

Technical Characteristic

| | |
|---------------------------------------|---|
| Voltage Grade | 6.35/11 kV |
| Test Voltage | 22 kV for 5 Minute (3.5 U _o r.m.s) |
| Temperature Rating | -15°C to +90°C |
| Partial Discharge | SANS 6291 |
| Resistivity of Semi-conducting Screen | SANS 6284-2 |
| Flame Retardent | SANS 60332 Part-3-24 |
| Minimum Installation Bending Radius | 15(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor |

Marking & Packing

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|---------------------------|--|
| Marking over the sheath | NEELKANTH CABLES , CABLE SIZE, 6.35/11 kV CU/XLPE/CTS/PVC-FR/AWA/PVC-FR 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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|----------------|-------|------------------------|
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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

DATA SHEET

SINGLE CORE XLPE ARMURED, REDUCED HALOGEN EMISSION, REDUCED FLAME PROPAGATION (LHFR) MEDIUM VOLTAGE CABLE

Single Core Cable Description : Copper Conductor,Semi-conducting 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 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 Single Core 50 Sq.mm up to 1000 Sq.mm

Application

These Medium Voltage Single Core 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

- Conductor** Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying.
 Conductors Complying with SANS 1411-1 Class-2
- Inner Semi-Conducting Screen** Extruded Layer of Semi-Conducting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to exclude all air voids ,and Prevent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339
- Insulation** The Insulation of XLPE (Cross-Linked Polyethylene)Rated Voltage, Lightning Overvoltage,Switching Overvoltage, and Withstand the Various Voltage Field Stress During the Cable Service Life.as per SANS 1411-4
- Core Semi-Conducting Screen** Extruded Layer of Semi-Conducting Screen over the Insulation . The Screen is Tightly Fitted to the Insulation to Exclude all air Voids,Prevent Concentration of electric field of the interface between the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339
- Metallic Screen** The Metallic Screen Shall Consist of either Copper Tapes or a Concentric layer of Copper Wires .The Metallic Layer may be applied over the Individual Cores .Metallic Screen Provide no Electric Field outer side the Cable,An Active Conductor for the Capacitive and Zero-Sequence short-circuit current,and Contribution to Mechanical Protection. as per SANS 1339
- Filler (Optional)** PVC or Polypropylene yarn
- Inner Sheath/Bedding** The Inner-sheath Comprises a layer of Extruded as per Requirement PVC-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 Complying with SANS 1411-6
- 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 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 1411-2.
 Colour: Black with Blue Stripe 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
 Reduced Flame Retardent SANS 60332 Part-3-24
 Reduced Halogen Emission SANS 5956
 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-LHFR/AWA/PVC-LHFR ELECTRIC CABLE , YEAR OF MANUFACTURING
 Sequential 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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1. COMPACTED COPPER CONDUCTOR
2. CONDUCTOR SEMI-CON
3. XLPE INSULATION
4. INSULATION SEMI-CON
5. COPPER TAPE SCREEN
6. NHLSFR INNER SHEATH
7. ALUMINIUM WIRE ARMOUR
8. NHLSFR OUTER SHEATH

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.

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|---------------------------------|--------------------------|
| 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 Single Core 50 Sq.mm up to 1000 Sq.mm

Application

These Medium Voltage Single Core 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

| | |
|-------------------------------------|--|
| Conductor | Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. Conductors Complying with SANS 1411-1 Class-2 |
| Inner Semi-Conducting Screen | Extruded Layer of Semi-Conducting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to exclude all air voids ,and Prevent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339 |
| Insulation | The Insulation of XLPE (Cross-Linked Polyethylene)Rated Voltage, Lightning Overvoltage, Switching Overvoltage, and Withstand the Various Voltage Field Stress During the Cable Service Life.as per SANS 1411-4 |
| Core Semi-Conducting Screen | Extruded Layer of Semi-Conducting Screen over the Insulation . The Screen is Tightly Fitted to the Insulation to Exclude all air Voids, Prevent Concentration of electric field of the interface between the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339 |
| Metallic Screen | The Metallic Screen Shall Consist of either Copper Tapes or a Concentric layer of Copper Wires .The Metallic Layer may be applied over the Individual Cores .Metallic Screen Provide no Electric Field outer side the Cable, An Active Conductor for the Capacitive and Zero-Sequence short-circuit current, and Contribution to Mechanical Protection. as per SANS 1339 |
| Filler (Optional) | PVC or Polypropylene yarn |
| Inner Sheath/Bedding | The Inner-sheath Comprises a layer of Extruded as per Requirement NHLSFR (Polyolefin) Applied Under the Armour, Inner-sheath Compound Complying with SANS 1411-5 |
| Armour | The Armour Consists of Round Aluminium Wire for Single Core Cable, Applied over the Inner-sheath. Armour Material Complying with SANS 1411-6 |
| Outer Sheath | The Over all Outer-sheath Comprises a layer of Extruded as per Requirement NHLSFR (Polyolefin) and Applied Over the Armour to Insulate the Metallic Screen From the Surrounding Medium, to Protact the Mettalic Screen From Corrosion, to Reduce the contribution of cables to Fire Propagation, and Contribute to Mechanical Protection. Outer sheath Compound Complying with SANS 1411-5. Colour: Black with White Stripe or as per Requirement |

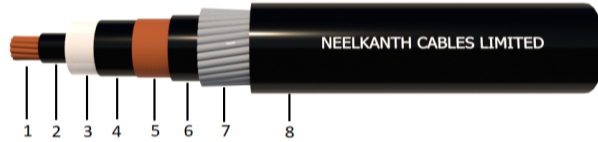
Technical Characteristic

| | |
|---------------------------------------|---|
| Voltage Grade | 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 |
| Reduced Flame Retardent | SANS 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

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|---------------------------|--|
| Marking over the sheath | NEELKANTH CABLES , CABLE SIZE, 6.35/11 kV CU/XLPE/CTS/NHLSFR/AWA/NHLSFR ELECTRIC CABLE , YEAR OF MANUFACTURING |
| Sequential 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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|----------------|--------|------------------------|
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1. COMPACTED COPPER CONDUCTOR
2. CONDUCTOR SEMI-CON
3. XLPE INSULATION
4. INSULATION SEMI-CON
5. COPPER TAPE SCREEN
6. PVC INNER SHEATH
7. ALUMINIUM WIRE ARMOUR
8. PE OUTER SHEATH

**NEELKANTH CABLES LIMITED
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.

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|--------------------------------------|--------------------------|
| Make | NEELKANTH CABLES LIMITED |
| Reference Standard | As per SANS:1339:2017 |
| Voltage Rating (U _o / 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 Single Core 50 Sq.mm up to 1000 Sq.mm

Application

These Medium Voltage Single 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

| | |
|-------------------------------------|---|
| Conductor | Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. Conductors Complying with SANS 1411-1 Class-2 |
| Inner Semi-Conducting Screen | Extruded Layer of Semi-Conducting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to exclude all air voids ,and Prevent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339 |
| Insulation | The Insulation of XLPE (Cross-Linked Polyethylene)Rated Voltage, Lightning Overvoltage,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 SANS 1339 |
| Metallic Screen | The Metallic Screen Shall Consist of either Copper Tapes or a Concentric layer of Copper Wires .The Metallic Layer may be applied over the Individual Cores .Metallic Screen Provide no Electric Field outer side the Cable,An Active Conductor for the Capacitive and Zero-Sequence short-circuit current,and Contribution to Mechanical Protection. as per SANS 1339 |
| Filler (Optional) | PVC or Polypropylene yarn |
| Inner Sheath/Bedding | The Inner-sheath Comprises a layer of Extruded as per Requirement PVC-FR, Applied Under the Armour,Inner-sheath Compound Complying with SANS 1411-2 |
| Armour | The Armour Consists of Round Aluminium Wire for Single Core Cable, Applied over the Inner-sheath.Armour Material Complying with SANS 1411-6 |
| Outer Sheath | The Over all Outer-sheath Comprises a layer of Extruded as per Requirement 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 U _o 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

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|---------------------------|---|
| Marking over the sheath | NEELKANTH CABLES , CABLE SIZE, 6.35/11 kV CU/XLPE/CTS/PVC-FR/AWA/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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|----------------|-------|------------------------|
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1. COMPACTER COPPER CONDUCTOR
2. CONDUCTOR SEMI-CON
3. XLPE INSULATION
4. INSULATION SEMI-CON
5. COPPER TAPE SCREEN
6. FR PVC OUTER SHEATH

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.

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

Range of Product Single Core 50 Sq.mm up to 1000 Sq.mm

Application

These Medium Voltage Single Core 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

| | |
|-------------------------------------|--|
| Conductor | Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. Conductors Complying with SANS 1411-1 Class-2 |
| Inner Semi-Conducting Screen | Extruded Layer of Semi-Conducting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to exclude all air voids ,and Prevent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339 |
| Insulation | The Insulation of XLPE (Cross-Linked Polyethylene)Rated Voltage, Lightning Overoltage, Switching Overvoltage, and Withstand the Various Voltage Field Stress During the Cable Service Life.as per SANS 1411-4 |
| Core Semi-Conducting Screen | Extruded Layer of Semi-Conducting Screen over the Insulation . The Screen is Tightly Fitted to the Insulation to Exclude all air Voids, Prevent Concentration of electric field of the interface between the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339 |
| Metallic Screen | The Metallic Screen Shall Consist of either Copper Tapes or a Concentric layer of Copper Wires .The Metallic Layer may be applied over the Individual Cores .Metallic Screen Provide no Electric Field outer side the Cable, An Active Conductor for the Capacitive and Zero-Sequence short-circuit current, and Contribution to Mechanical Protection. as per SANS 1339 |
| Filler (Optional) | PVC or Polypropylene yarn |
| Outer Sheath | The Over all Outer-sheath Comprises a layer of Extruded as per Requirement PVC and Applied Over the Armour to Insulate the Mettalic Screen From the Surrounding Medium, to Protact the Mettalic Screen From Corrosion, to Reduce the contribution of cables to Fire Propagation, and Contribute to Mechanical Protection. Outer sheath Compound Complying with SANS 1411-2. Colour: Black with Red Stripe or as per Requirement |

Technical Characteristic

| | |
|---------------------------------------|---|
| Voltage Grade | 6.35/11 kV |
| Test Voltage | 22 kV for 5 Minute (3.5 U _o r.m.s) |
| Temperature Rating | -15°C to +90°C |
| Partial Discharge | SANS 6291 |
| Resistivity of Semi-conducting Screen | SANS 6284-2 |
| Flame Retardent | SANS 60332 Part-3-24 |
| Minimum Installation Bending Radius | 20(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 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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|----------------|-------|------------------------|
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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 EMISSION, REDUCED FLAME PROPAGATION (LHFR) 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 LHFR-PVC Outer Sheathed,Medium Voltage 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 Single Core 50 Sq.mm up to 1000 Sq.mm

Application

These Medium Voltage Single Core 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

| | |
|-------------------------------------|---|
| Conductor | Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. Conductors Complying with SANS 1411-1 Class-2 |
| Inner Semi-Conducting Screen | Extruded Layer of Semi-Conducting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to exclude all air voids ,and Prevent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339 |
| Insulation | The Insulation of XLPE (Cross-Linked Polyethylene)Rated Voltage, Lightning Overoltage,Switching Overvoltage, and Withstand the Various Voltage Field Stress During the Cable Service Life.as per SANS 1411-4 |
| Core Semi-Conducting Screen | Extruded Layer of Semi-Conducting Screen over the Insulation . The Screen is Tightly Fitted to the Insulation to Exclude all air Voids,Prevent Concentration of electric field of the interface between the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339 |
| Metallic Screen | The Metallic Screen Shall Consist of either Copper Tapes or a Concentric layer of Copper Wires .The Metallic Layer may be applied over the Individual Cores .Metallic Screen Provide no Electric Field outer side the Cable,An Active Conductor for the Capacitive and Zero-Sequence short-circuit current,and Contribution to Mechanical Protection. as per SANS 1339 |
| Filler (Optional) | PVC or Polypropylene yarn |
| 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 | 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 |
| Reduced Flame Retardent | SANS 60332 Part-3-24 |
| Reduced Halogen Emission | SANS 5956 |
| Minimum Installation Bending Radius | 20(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-LHFR 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 |

| | | |
|----------------|-------|------------------------|
| Data Sheet No. | 10092 | Page 1 of 1 |
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1. COMPACTED COPPER CONDUCTOR
2. CONDUCTOR SEMI-CON
3. XLPE INSULATION
4. INSULATION SEMI-CON
5. COPPER TAPE SCREEN
6. NHLSFR OUTER SHEATH

**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.

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

Range of Product Single Core 50 Sq.mm up to 1000 Sq.mm

Application

These Medium Voltage Single Core 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

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| Conductor | Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. Conductors Complying with SANS 1411-1 Class-2 |
| Inner Semi-Conducting Screen | Extruded Layer of Semi-Conducting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to exclude all air voids, and Prevent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339 |
| Insulation | The Insulation of XLPE (Cross-Linked Polyethylene) Rated Voltage, Lightning Overvoltage, Switching Overvoltage, and Withstand the Various Voltage Field Stress During the Cable Service Life. as per SANS 1411-4 |
| Core Semi-Conducting Screen | Extruded Layer of Semi-Conducting Screen over the Insulation. The Screen is Tightly Fitted to the Insulation to Exclude all air Voids, Prevent Concentration of electric field of the interface between the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339 |
| Metallic Screen | The Metallic Screen Shall Consist of either Copper Tapes or a Concentric layer of Copper Wires. The Metallic Layer may be applied over the Individual Cores. Metallic Screen Provide no Electric Field outer side the Cable, An Active Conductor for the Capacitive and Zero-Sequence short-circuit current, and Contribution to Mechanical Protection. as per SANS 1339 |
| 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 Metallic Screen From the Surrounding Medium, to Protect the Metallic Screen From Corrosion, to Reduce the contribution of cables to Fire Propagation, and Contribute to Mechanical Protection. Outer sheath Compound Complying with SANS 1411-5. Colour: Black with White Stripe or as per Requirement |

Technical Characteristic

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| Voltage Grade | 6.35/11 kV |
| Test Voltage | 22 kV for 5 Minute (3.5 U _o r.m.s) |
| Temperature Rating | -15°C to +90°C |
| Partial Discharge | SANS 6291 |
| Resistivity of Semi-conducting Screen | SANS 6284-2 |
| Reduced Flame Retardent | SANS 60332 Part-3-24 |
| Zero Halogen Emission | SANS 60754-2 |
| Minimum Installation Bending Radius | 20(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor |

Marking & Packing

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| Marking over the sheath | NEELKANTH CABLES , CABLE SIZE, 6.35/11 kV CU/XLPE/CTS/NHLSFR 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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1. COMPACTED COPPER CONDUCTOR
2. CONDUCTOR SEMI-CON
3. XLPE INSULATION
4. INSULATION SEMI-CON
5. COPPER TAPE SCREEN
6. PE OUTER SHEATH

NEELKANTH CABLES LIMITED
DATA SHEET
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.

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|---------------------------------|--------------------------|
| 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 Single Core 50 Sq.mm up to 1000 Sq.mm

Application

These Medium Voltage Single 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

- Conductor** Annealed Plain Copper Compacted Round Stranded Conductors to carry Current and withstand Pulling Stresses During Cable Laying. Conductors Complying with SANS 1411-1 Class-2
- Inner Semi-Conducting Screen** Extruded Layer of Semi-Conducting Screen over Conductor to Smooth the Electric Field at the Conductor and Firmly Bonded to the Insulation to exclude all air voids ,and Prevent Concentration of electric field of the interface between the Insulation and the Inner Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339
- Insulation** The Insulation of XLPE (Cross-Linked Polyethylene)Rated Voltage, Lightning Overvoltage,Switching Overvoltage, and Withstand the Various Voltage Field Stress During the Cable Service Life.as per SANS 1411-4
- Core Semi-Conducting Screen** Extruded Layer of Semi-Conducting Screen over the Insulation . The Screen is Tightly Fitted to the Insulation to Exclude all air Voids,Prevent Concentration of electric field of the interface between the Insulation and the Semi-Conductor. Semi-Conducting Compound Complying with SANS 1339
- Metallic Screen** The Metallic Screen Shall Consist of either Copper Tapes or a Concentric layer of Copper Wires .The Metallic Layer may be applied over the Individual Cores .Metallic Screen Provide no Electric Field outer side the Cable,An Active Conductor for the Capacitive 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 Metallc Screen From the Surrounding Medium,to Protact the Metallc 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 | 20(D+d) D= Nominal Diameter of the Cable, d=Nominal Diameter of the Conductor |

Marking & Packing

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|---------------------------|--|
| Marking over the sheath | NEELKANTH CABLES , CABLE SIZE, 6.35/11 kV CU/XLPE/CTS/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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