IEC 60502-2 Armoured (LC-GSTA) Fire Retardant

IEC 60502-2 Armoured (LC-GSTA) 3 x 150

Reference: 10138176
EAN 13: 3427580334207

CONTACT

Market information
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- Power cables 3.6/6 (7.2) kV, 6/10 (12) kV, 8.7/15 (17.5) kV, 12/20 (24) kV, 18/30 (36) kV
- With lead sheath (LC)
- Armoured with galvanized steel tapes (GSTA) or aluminium tapes (ATA)
- **Aliphatic and aromatic hydrocarbons resistant**

STANDARDS

Product IEC 60228; IEC 60502-2

Test IEC 60332-3-22 Cat.A

APPLICATIONS

These power cables are used for electricity supply in **medium voltage installation system**. They are well adapted to **underground use** in industrial applications, in moist areas, where **hydrocarbon and mechanical protections are needed**.**The lead cover brings an enhanced resistance to aromatic hydrocarbons**.

Design

Conductor:

Stranded bare copper (class 2)

Semi conductor

Insulation:

Cross-linked polyethylene (XLPE)

Semi conductor

Screen:

Copper tape

Bedding (optional):

An inner sheath acting as a filler with practically zero thickness

Inner sheath:

Polyvinyl chloride (PVC)

Lead cover(lead sheath)

Armour:

Paraffin-waxed crepe paper

Galvanized steel tapes (GSTA) or aluminium tapes (ATA) for 1 core cable

Outer sheath:

Polyvinyl chloride (PVC). Colour: red. Other colour on request

Core identification

1 core: natural
3x: black, green - brown (by tape under copper screen)

Marking

NEXANS 279 XLPE/PVC/LC/GSTA or ATA/PVC VOLTAGE Nber of cores and cross-section Cu/Alu IEC 60332-3-22(A) MM YYYY Manufacturing number + metric marking.

Rated Voltage Uo/U (Um)	Mechanical resistance to impacts	Fire retardant	Chemical resistance	Max.conductor temp.in service	Operating temp.	U.V resistance
8.7 / 15 (17.5) kV	**Good**	**EN IEC 60332-3-22 (cat A)**	**Aliphatic and aromatic hydrocarbons resistant**	**90 °C**	**-20 ... 60 °C**	**Yes**

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CHARACTERISTICS

Construction characteristics	
Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	XLPE (Cross-linked Polyethylene)
Screen	Copper tape
Inner sheath	PVC
Armour type	Galvanized steel tapes
Outer sheath	PVC
Lead Sheath	Yes
Protection	Yes
Dimensional characteristics	
Number of cores	3
Conductor cross-section	150 mm²
Conductor diameter	14.17 mm
Diameter over insulation	24.37 mm
Diameter over screen	25.8 mm
Diameter over inner sheath	60.8 mm
Diameter over lead sheath	65.6 mm
Diameter over armour	69.4 mm
Minimum outer diameter	74.1 mm
Maximum outer diameter	81.7 mm
Approximate weight	15281 kg/km
Electrical characteristics	
Rated Voltage Uo/U (Um)	8.7 / 15 (17.5) kV
Mechanical characteristics	
Mechanical resistance to impacts	Good
Usage characteristics	
Fire retardant	EN IEC 60332-3-22 (cat A)
Chemical resistance	Aliphatic and aromatic hydrocarbons resistant
Max. conductor temperature in service	90 °C
Operating temperature, range	-20 ... 60 °C
U.V resistance	Yes

SELLING AND DELIVERY INFORMATION

Other fire performances IEC 60332-1 or IEC 60332-3-24(C) on request.

Rated Voltage Uo/U (Um)
8.7 / 15 (17.5) kV

Mechanical resistance to impacts
Good

Fire retardant
EN IEC 60332-3-22 (cat A)

Chemical resistance
Aliphatic and aromatic hydrocarbons resistant

Max.conductor temp.in service
90 °C

Operating temp.
-20 ... 60 °C

U.V resistance
Yes

Minimum bending radius:

1 core: 10 x outer diameter
3 cores: 8 x outer diameter
To be double during laying operations

Aluminium conductors available on request.

Rated Voltage Uo/U (Um)
8.7 / 15 (17.5) kV

Mechanical resistance to impacts
Good

Fire retardant
EN IEC 60332-3-22 (cat A)

Chemical resistance
Aliphatic and aromatic hydrocarbons resistant

Max.conductor temp.in service
90 °C

Operating temp.
-20 ... 60 °C

U.V resistance
Yes