



Reference: 10110672
EAN 13: 3427580186684

CONTACT

Market information
industryprojects.business@lynx^{eo}.com
ogroup.com

- 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
- Armoured with galvanized steel tapes (GSTA) or aluminium tapes (ATA)
- **Oil 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 where **chemical and mechanical protection are needed** (refinery areas, chemical plants...).

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)

Armour:

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

3 x: black – green – brown (by tape under copper screen)



Rated Voltage U₀/U
(Um)
6 / 10 (12) kV



Mechanical resistance
to impacts
Good



Marking
NEXANS 279 XLPE/PVC/GSTA or ATA/PVC
section Cu/Alu IEC 60332-3-22(A)
EN IEC 60332-3-22
(cat A)



Yes



service temperature
-20 ... 60 °C
90 °C



VOLTAGE marking
-20 ... 60 °C



Yes

MM-XXX-YY-YY-YY manufacturing number
Nber of cores and cross section marking

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	Aluminium tape
Outer sheath	PVC
Protection	Yes

Dimensional characteristics

Number of cores	1
Conductor cross-section	500 mm ²
Conductor diameter	27.0 mm
Diameter over insulation	35.8 mm
Diameter over screen	37.2 mm
Diameter over inner sheath	41.2 mm
Diameter over armour	43.5 mm
Minimum outer diameter	52.9 mm
Maximum outer diameter	58.3 mm
Approximate weight	7138 kg/km

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	6 / 10 (12) kV
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Mechanical characteristics

Mechanical resistance to impacts	Good
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Usage characteristics

Fire retardant	EN IEC 60332-3-22 (cat A)
Oil resistance	Yes
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) and enhanced hydrocarbon resistance on request.

Minimum bending radius:



Rated Voltage U₀/U (U_m)
6 / 10 (12) kV



Mechanical resistance to impacts
Good



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



Oil resistance
Yes



Max. conductor temp. in service
90 °C



Operating temp.
-20 ... 60 °C



U.V resistance
Yes

1 core: 10 x outer diameter
3x: 10 x outer diameter
To be doubled during laying operations

Aluminium conductors available on request



Rated Voltage U_0/U
(Um)
6 / 10 (12) kV



Mechanical resistance
to impacts
Good



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



Oil resistance
Yes



Max. conductor temp. in
service
90 °C



Operating temp.
-20 ... 60 °C



U.V. resistance
Yes