



Reference: 10108659
EAN 13: 3427580168642

CONTACT

Market information
 industryprojects.business@lynxgroup.com

- 0.6/1 kV Power and control cables
- Armoured with galvanized steel wires (SWA) or aluminium wires (AWA)
- **Oil resistant**

STANDARDS

Product IEC 60228; IEC 60502-1

Test IEC 60332-3-22 Cat.A

APPLICATIONS

These power and control cables are used for electricity supply in **low voltage installation system**. They are well adapted to underground use in industrial applications where **chemical and mechanical protections are needed** (refinery areas, chemical plants...).

Design

Conductor:

Solid plain copper : 1.5 to 4 mm²

Stranded plain copper : 1.5 to 630 mm²

Insulation:

Cross-linked polyethylene (XLPE)

Bedding(optional):

Inner sheath acting as a filler with practically zero thickness or assembling polyester tape

Inner covering (inner sheath):

Polyvinyl chloride (PVC) Colour :black

Armour:

Galvanized steel wires (SWA) or aluminium wires (AWA) for 1 core cable

Outer sheath:

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

Core identification

1 core: black

2x to 5G cores: according to HD 308 S2

Above 5 cores: black core printed with white number.

Marking

NEXANS 279 XLPE/PVC/AWA or SWA/PVC 0.6/1 kV Nber of cores and cross section Cu IEC 60332-3-22(A) MM YYYY manufacturing number + meter marking



Rated Voltage U₀/U (Um)
0,6/1 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

CHARACTERISTICS

Construction characteristics

Conductor material	Plain copper
Type of conductor	Solid, Class 1
Insulation	XLPE (Cross-linked Polyethylene)
Inner sheath	PVC
Armour type	Galvanized steel wires
Outer sheath	PVC
Protection	Yes
With Green/Yellow core	No

Dimensional characteristics

Number of cores	4
Conductor cross-section	1.5 mm ²
Conductor diameter	1.39 mm
Diameter over insulation	2.79 mm
Diameter over inner sheath	9 mm
Diameter over armour	10.85 mm
Minimum outer diameter	14.02 mm
Maximum outer diameter	15.5 mm
Approximate weight	410.5 kg/km

Electrical characteristics

Rated Voltage U ₀ /U (Um)	0,6/1 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

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:

- 1 core: 10 x outer diameter
- Multicores: 8 x outer diameter
- To be doubled during laying operations



Rated Voltage U₀/U (Um)
0,6/1 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

Cables with reduced neutral on request



Rated Voltage U₀/U (U_m)
0,6/1 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