



**Reference:** 10108609  
**EAN 13:** 3427580168147

### CONTACT

Market information  
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- 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 mm<sup>2</sup>

Stranded plain copper : 1.5 to 630 mm<sup>2</sup>

#### 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 U<sub>0</sub>/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	Stranded, class 2
Insulation	XLPE (Cross-linked Polyethylene)
Inner sheath	PVC
Armour type	Aluminium Wire
Outer sheath	PVC
Protection	Yes
With Green/Yellow core	No

### Dimensional characteristics

Number of cores	1
Conductor cross-section	35 mm <sup>2</sup>
Conductor diameter	7.1 mm
Diameter over insulation	8.9 mm
Diameter over inner sheath	10.9 mm
Diameter over armour	14.7 mm
Minimum outer diameter	17.75 mm
Maximum outer diameter	19.6 mm
Approximate weight	668.51 kg/km

### Electrical characteristics

Rated Voltage U <sub>0</sub> /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 U<sub>0</sub>/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  $U_0/U$  ( $U_m$ )  
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