



**Reference:** 10108663  
**EAN 13:** 3427580168680

### 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      | 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    | 4 mm <sup>2</sup> |
| Conductor diameter         | 2.21 mm           |
| Diameter over insulation   | 3.61 mm           |
| Diameter over inner sheath | 11 mm             |
| Diameter over armour       | 12.8 mm           |
| Minimum outer diameter     | 15.91 mm          |
| Maximum outer diameter     | 17.5 mm           |
| Approximate weight         | 579.08 kg/km      |

### Electrical characteristics

|                                      |          |
|--------------------------------------|----------|
| Rated Voltage U <sub>0</sub> /U (Um) | 0,6/1 kV |
|--------------------------------------|----------|

### Mechanical characteristics

|                                  |      |
|----------------------------------|------|
| Mechanical resistance to impacts | Good |
|----------------------------------|------|

### 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<sub>0</sub>/U (U<sub>m</sub>)  
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