



Reference: 10108615
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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 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 | 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 | 185 mm ² |
| Conductor diameter | 15.85 mm |
| Diameter over insulation | 19.05 mm |
| Diameter over inner sheath | 21 mm |
| Diameter over armour | 24.9 mm |
| Minimum outer diameter | 27.64 mm |
| Maximum outer diameter | 30.5 mm |
| Approximate weight | 2277.21 kg/km |

Electrical characteristics

| | |
|--------------------------------------|----------|
| Rated Voltage U ₀ /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 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 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