



Reference: 10137968
EAN 13: 3427580332128

CONTACT

Market information
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- 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 wires (SWA) or aluminium wires (AWA)
- **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 protections are needed** (refinery areas, chemical plant...).

Design

Conductor:

Stranded bare copper (class 2)

Semi conductor

Insulation:

Cross-linked polyethylene (XLPE)

Semi conductor

Screen:

Copper tape

Bedding

An inner sheath acting as a filler with practically zero thickness

Inner sheath:

Polyvinyl chloride (PVC)

Armour:

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

Outer sheath:

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

Core identification

1 core: natural

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



Rated Voltage U₀/U (Um)
 8.7 / 15 (17.5) kV



Mechanical resistance to impacts
Good



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



Oil resistance
 Yes



Temperature range for service
 -20 ... 60 °C



Temperature range for storage
 -20 ... 60 °C



Number of cores and cross-section marking.
 Yes

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 | Galvanized steel wires |
| Outer sheath | PVC |
| Protection | Yes |

Dimensional characteristics

| | |
|----------------------------|--------------------|
| Number of cores | 3 |
| Conductor cross-section | 25 mm ² |
| Conductor diameter | 6.1 mm |
| Diameter over insulation | 16.3 mm |
| Diameter over screen | 17.7 mm |
| Diameter over inner sheath | 45.5 mm |
| Diameter over armour | 50.5 mm |
| Minimum outer diameter | 55.8 mm |
| Maximum outer diameter | 61.5 mm |
| Approximate weight | 6149 kg/km |

Electrical characteristics

| | |
|---|--------------------|
| Rated Voltage U ₀ /U (U _m) | 8.7 / 15 (17.5) 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 |
| 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)
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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
 3 cores: 8 x outer diameter
 To be doubled during laying operations

Aluminium conductors available on request.



Rated Voltage U₀/U
 (Um)
 8.7 / 15 (17.5) 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