

IEC 60502-2 Unarmoured Fire retardant

IEC 60502-2 Unarmoured 1 x 240

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
- Oil resistant.

DESCRIPTION

Applications

These power cables are used for electricity supply in **medium voltage installation system where chemicals may be present.**

Design

Conductor:

Stranded bare copper (class 2);

Semi-conductor

Insulation:

Cross-linked polyethylene (XLPE)

Semi-conductor

Screen:

Copper tape

Bedding (Optional):

An inner sheath acting as a filler with practically zero thickness

Outer sheath:

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

Core identification

1 core: natural

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

Marking

NEXANS 279 XLPE/PVC VOLTAGE Nber of cores and cross section Cu/Alu IEC 60332-3-22(A) MM YYYY manufacturing number + meter marking



STANDARDS

International IEC 60228;
IEC 60332-3-22 Cat.A;
IEC 60502-2



Rated Voltage U_o/U (Um)
12 / 20 (24) kV



Fire retardant
IEC 60332-3-22



Oil resistance
Yes



Max. conductor temp. in service
90 °C



Operating temp.
-20 - 60 °C



U.V resistance
Yes

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Type of conductor	Stranded, Class 2
Insulation	XLPE (Cross-linked Polyethylene)
Screen	Copper tape
Outer sheath	PVC
Protection	no

Dimensional characteristics

Number of cores	1
Conductor cross-section	240 mm ²
Conductor diameter	18.2 mm
Diameter over insulation	30.4 mm
Diameter over screen	31.8 mm
Minimum outer diameter	41.5 mm
Maximum outer diameter	45.8 mm
Approximate weight	3883 kg/km

Electrical characteristics

Rated Voltage U ₀ /U (Um)	12 / 20 (24) kV
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Usage characteristics

Fire retardant	IEC 60332-3-22
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:

- 1 core: 10 x outer diameter
- 3x: 8 x outer diameter
- To be doubled during laying operations

Aluminium conductors available on request



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