

# IEC 60502-2 Unarmoured Fire retardant

IEC 60502-2 Unarmoured 3 x 50

## Contact

Market information  
industryprojects.business@nexans.com

**Nexans Ref.:** 10110137

**EAN 13:** 3427580181672

- 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<sub>o</sub>/U (Um)  
3.6 / 6 (7.2) 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.

Generated 5/19/22 www.nexans.fr Page 1 / 2

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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	3
Conductor cross-section	50 mm <sup>2</sup>
Conductor diameter	8.2 mm
Diameter over insulation	14.4 mm
Diameter over screen	15.8 mm
Minimum outer diameter	39.3 mm
Maximum outer diameter	43.4 mm
Approximate weight	3021 kg/km

#### Electrical characteristics

Rated Voltage U <sub>o</sub> /U (U <sub>m</sub> )	3.6 / 6 (7.2) 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



Rated Voltage U<sub>o</sub>/U (U<sub>m</sub>)  
3.6 / 6 (7.2) 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

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