



- Instrumentation cables 170/300 V
- Overall Screen (OS)
- Lead free
- Aliphatic and aromatic hydrocarbons resistant

### STANDARDS

Test IEC 60332-3-22 Cat.A

### APPLICATIONS

These instrumentation and communication cable are used to **transmit analogue or digital signals in measurement and process control in moist areas and where aliphatic and aromatic hydrocarbons may be present. Hypron® offers an alternative to conventional lead covered cable and is an environmental friendly solution.**

### Design

#### Conductor:

Stranded bare copper class 2

#### Insulation:

Cross-linked polyethylene (XLPE)

#### Binder tape

#### Bedding

#### Inner sheath:

Polyvinyl chloride (PVC).

Colour: black.

#### Overall screen/sealing barrier:

Tinned copper drain wire,

Aluminium backed polyethylene tape

#### Bedding:

High density polyethylene (PE)

Colour: black

#### Special sheath (intermediate sheath):

Polyamide

#### Outer sheath:

Polyvinyl chloride (PVC).

Colour: black.

Other colour on request.

Fire retardant  
EN IEC 60332-3-22  
(cat A)

Chemical resistance  
**Aliphatic and aromatic hydrocarbons resistant**

Electro magnetic interference resistance  
Yes

Operating temp.  
**-20 ... 60 °C**

Max. conductor temp. in service  
**90 °C**



Lead free  
Yes



Rated Voltage Uo/U  
(Um)  
**170/300V**



Fire retardant  
EN IEC 60332-3-22  
(cat A)



Chemical resistance  
**Aliphatic and aromatic hydrocarbons resistant**



Electro magnetic interference resistance  
Yes



Operating temp.  
**-20 ... 60 °C**



Max. conductor temp. in service  
**90 °C**

### Core identification

Pair: white - black

Quad: white - black - red - blue (2 pair cables assembled as a quad)

All white cores printed with pair numbers

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### Marking

NEXANS 279 XLPE/PVC/AL/HDPE/NC/PVC 170/300V Nber of pairs & cross-section

### CONTACT

Market information  
industryprojects.business@lynx<sup>eo</sup>.com  
ogroup.com

### CHARACTERISTICS

#### Construction characteristics

Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	XLPE (Cross-linked Polyethylene)
Inner sheath	PVC
Overall screen	Tinned copper drain wire + aluminium/polyethylene tape
Material of bedding	High-density polyethylene (PE)
Intermediate sheath	Polyamide
Outer sheath	PVC
Lead free	Yes
Protection	no

#### Dimensional characteristics

Number of pairs	1
Conductor cross-section	1 mm <sup>2</sup>
Conductor diameter	1.28 mm
Diameter over insulation	1.76 mm
Diameter over inner sheath	6 mm
Diameter over intermediate sheath	9.2 mm
Minimum outer diameter	14.8 mm
Maximum outer diameter	16.3 mm
Approximate weight	284 kg/km

#### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	170/300V
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#### Usage characteristics

Fire retardant	EN IEC 60332-3-22 (cat A)
Chemical resistance	Aliphatic and aromatic hydrocarbons resistant
Electro magnetic interference resistance	Yes
Operating temperature, range	-20 ... 60 °C
Max. conductor temperature in service	90 °C
Standard	EN

### SELLING AND DELIVERY INFORMATION

Other fire performances IEC 60332-1 or IEC 60332-3-24(C) on request.

Minimum bending radius:



Lead free  
Yes



Rated Voltage U<sub>0</sub>/U  
(U<sub>m</sub>)  
170/300V



Fire retardant  
EN IEC 60332-3-22  
(cat A)



Chemical resistance  
Aliphatic and  
aromatic  
hydrocarbons  
resistant



Electro magnetic  
interference resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp. in  
service  
90 °C

15 x outer diameter  
To be doubled during laying operations

Tinned copper conductors available on request



Lead free  
Yes



Rated Voltage U<sub>o</sub>/U  
(U<sub>m</sub>)  
170/300V



Fire retardant  
EN IEC 60332-3-22  
(cat A)



Chemical resistance  
Aliphatic and  
aromatic  
hydrocarbons  
resistant



Electro magnetic  
interference resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp. in  
service  
90 °C