



- 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

## Core identification

Pair: white - black

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

All white cores are printed with pairs numbers. White cores are printed with pairs numbers and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynxéo is indicative only and shall not be binding on Lynxéo or be treated as constituting a representation on the part of Lynxéo.

## Marking

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

## CONTACT

Market information  
industryprojects.business@lynxeogroup.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                   | 10                |
| Conductor cross-section           | 1 mm <sup>2</sup> |
| Conductor diameter                | 1.28 mm           |
| Diameter over insulation          | 1.76 mm           |
| Diameter over inner sheath        | 14.9 mm           |
| Diameter over intermediate sheath | 18.4 mm           |
| Minimum outer diameter            | 23.7 mm           |
| Maximum outer diameter            | 26.1 mm           |
| Approximate weight                | 650 kg/km         |

#### Electrical characteristics

|                                      |          |
|--------------------------------------|----------|
| Rated Voltage U <sub>0</sub> /U (Um) | 170/300V |
|--------------------------------------|----------|

#### 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  
(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

15 x outer diameter  
To be doubled during laying operations

Tinned copper conductors available on request



Lead free  
**Yes**



Rated Voltage U<sub>0</sub>/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**