



- 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 are printed with pair numbers

The technical and 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@lynxéogroup.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

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (Um)	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

## SECTION 0.5MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	0.9	1.38	6	9.2	14.8	16.3	277
2	0.9	1.38	6	9.2	14.8	16.3	282
5	0.9	1.38	9.5	12.8	18.2	20.1	361
10	0.9	1.38	12.2	15.7	21.0	23.2	481
20	0.9	1.38	15.6	19.3	24.5	27.1	666
30	0.9	1.38	18.6	22.3	27.5	30.3	846



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

## SECTION 0.75MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.1	1.58	6	9.2	14.8	16.3	282
2	1.1	1.58	6.3	9.5	15.1	16.6	302
5	1.1	1.58	10.5	13.8	19.2	21.2	417
10	1.1	1.58	13.5	17	22.3	24.6	574
20	1.1	1.58	17.5	21.2	26.4	29.1	831
30	1.1	1.58	20.9	24.6	29.7	32.7	1085

## SECTION 1.0MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.28	1.76	6	9.2	14.8	16.3	284
2	1.28	1.76	6.8	10	15.5	17.1	324
5	1.28	1.76	11.4	14.7	20.1	22.1	459
10	1.28	1.76	14.9	18.4	23.7	26.1	650
20	1.28	1.76	19.3	23	28.1	31.0	958
30	1.28	1.76	23	26.7	31.7	35.0	1263

## SECTION 1.5MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.5	2.16	6.8	10	15.5	17.1	322
2	1.5	2.16	7.7	10.9	16.4	18.1	374
5	1.5	2.16	13.3	16.6	21.9	24.2	562
10	1.5	2.16	17.7	21.2	26.4	29.1	844
20	1.5	2.16	23	26.7	31.7	35.0	1294
30	1.5	2.16	27.6	31.3	36.2	39.9	1747



Lead free  
Yes



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

## SECTION 2.5MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.91	2.57	7.6	10.8	16.3	18.0	362
2	1.91	2.57	8.7	15.1	17.3	19.1	437
5	1.91	2.57	15.4	18.7	24.0	26.4	698
10	1.91	2.57	20.4	23.9	29.0	32.0	1075
20	1.91	2.57	26.9	30.6	35.5	39.2	1716
30	1.91	2.57	32.4	36.1	40.8	45.0	2366

## SELLING AND DELIVERY INFORMATION

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

Minimum bending radius:

- 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  
(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