



- 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

All white cores are printed with pair 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@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 ₀ /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 0.5MM²

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 U₀/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 0.75MM²

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 1.0MM²

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 1.5MM²

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 U₀/U_m
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 2.5MM²

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 U₀/U
(U_m)
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