



- Instrumentation cables 170/300 V
- Individual & Overall Screen (IOS)
- **Oil 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 where chemicals may be present. The individual screening of each pair limits the consequence of crosstalk.**

Design

Conductor:

Stranded bare copper class 2

Insulation:

Cross-linked polyethylene (XLPE)

Individual screen:

Polyester tape

Tinned copper drain wire,

Aluminium backed polyester tape

Polyester tape

Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

Outer sheath:

Polyvinyl chloride (PVC).

Colour: black.

Other colour on request.

Core identification

Pair: white - black

White core printed with pair number



Rated Voltage U₀/U (Um)
170/300V



Fire retardant
EN IEC 60332-3-22 (Cat. A)



Oil resistance
EN IEC 60332-3-22 (Cat. A)



Electro magnetic Interference
Resistance
Yes



Operating Temp.
-20 to +100°C



Max. conductor temp. in service
90 °C

Marking

NEXANS 279 XLPE/IND +OA SCP/PVC 170/300V Nber of pairs & cross section Cu IEC 60332-3-22 (A) MM YYYY Manufacturing number + Metric marking

Standards

EN 50288-7 (Design guide-lines)

All drawings, designs, specifications, plans 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.

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)
Individual screen	Tinned copper drain wire + aluminium/polyester tape
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Outer sheath	PVC
Protection	no

Electrical characteristics

Rated Voltage U ₀ /U (Um)	170/300V
--------------------------------------	----------

Usage characteristics

Fire retardant	EN IEC 60332-3-22 (cat A)
Oil resistance	Yes
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]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
2	0.9	1.38	9.0	9.9	100
5	0.9	1.38	11.0	12.1	170
10	0.9	1.38	13.9	15.3	282
20	0.9	1.38	17.8	19.6	487
30	0.9	1.38	20.8	22.9	687

SECTION 0.75MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
2	1.1	1.58	9.6	10.6	118
5	1.1	1.58	12.0	13.2	212
10	1.1	1.58	15.3	16.9	357
20	1.1	1.58	19.5	21.5	620
30	1.1	1.58	23.2	25.6	899



Rated Voltage U₀/U (Um)
170/300V



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



Oil resistance
Yes



Electro magnetic interference
resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp. in
service
90 °C

SECTION 1.0MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
2	1.28	1.76	10.3	11.3	134
5	1.28	1.76	12.9	14.2	245
10	1.28	1.76	16.5	18.2	420
20	1.28	1.76	21.2	23.4	742
30	1.28	1.76	25.2	27.8	1072

SECTION 1.5MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
2	1.5	2.16	11.6	12.8	172
5	1.5	2.16	14.8	16.4	327
10	1.5	2.16	19.2	21.2	568
20	1.5	2.16	24.8	27.4	1015
30	1.5	2.16	29.6	32.6	1478

SECTION 2.5MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
2	1.91	2.57	13.1	14.4	234
5	1.91	2.57	16.9	18.6	434
10	1.91	2.57	22.0	24.3	773
20	1.91	2.57	28.6	31.6	1402
30	1.91	2.57	34.4	38.0	2071

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:

10 x outer diameter
To be doubled during laying operations

Tinned copper conductors available on request



Rated Voltage U₀/U (Um)
170/300V



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



Oil resistance
Yes



Electro magnetic interference
resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp. in
service
90 °C