



CONTACT

Market information
industryprojects.business@lynxéo
ogroup.com

- Instrumentation cables 170/300 V
- With lead cover (LC)
- Overall Screen (OS)
- **Aliphatic and aromatic hydrocarbons resistant**

STANDARDS

Test IEC 60332-3-22 Cat.A

APPLICATIONS

These instrumentation and communication cables are used to **transmit analogue or digital signals in measurement and process control**. They are well adapted to **underground use** in industrial applications, in moist areas, where **hydrocarbon and mechanical protection are needed**. The **lead cover brings an enhanced resistance to aromatics hydrocarbons**.

Design

Conductor:

Stranded bare copper class 2

Insulation:

Cross-linked polyethylene (XLPE)

Overall screen:

Polyester tape

Tinned copper drain wire,

Aluminium backed polyester tape

Inner sheath:

Polyvinyl chloride (PVC)

Colour: black

Lead sheath:

Bedding (intermediate sheath):

Polyvinyl chloride (PVC)

Colour: black

Armour:

Galvanized steel wires (SWA)

Outer sheath:



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



Mechanical
resistance to
impacts
Good



Fire resistance
**EN IEC 60332-3-22
(cat A)**



Other colour request.
Aliphatic and
aromatic
hydrocarbons
resistant



Electro magnetic
interference
resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor
temp. in service
90 °C



Min. dynamic
operating bending
rad.
306.0 mm

Core identification

Pair: white - black

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

All white core designs with pair number 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/OA.SCR/PVC//LC/PVC/SWA/PVC 170/300V Nber of pairs & cross-

CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	XLPE (Cross-linked Polyethylene)
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Inner sheath	PVC
Lead Sheath	Yes
Intermediate sheath	PVC
Armour type	Galvanized steel wires
Outer sheath	PVC
Protection	Yes

Dimensional characteristics

Number of pairs	30
Conductor cross-section	0.5 mm ²
Conductor diameter	0.9 mm
Diameter over insulation	1.38 mm
Diameter over inner sheath	18.3 mm
Diameter over lead sheath	20.7 mm
Diameter over intermediate sheath	22.7 mm
Diameter over armour	25.2 mm
Minimum outer diameter	27.7 mm
Maximum outer diameter	30.6 mm
Approximate weight	2063 kg/km

Electrical characteristics

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

Mechanical characteristics

Mechanical resistance to impacts	Good
----------------------------------	------

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
Minimum dynamic operating bending radius	306.0 mm
Standard	EN



Rated Voltage U₀/U (Um)
170/300V



Mechanical resistance to impacts
Good



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



Min. dynamic operating bending rad.
306.0 mm

SELLING AND DELIVERY INFORMATION

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



Mechanical
resistance to
impacts
Good



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



Min. dynamic
operating bending
rad.
306.0 mm