



CONTACT

Market information
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- 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)**



Polyvinyl chloride (PVC)
Colour: black
Other colour on request.
Fire resistance
**EN IEC 60332-3-22
(cat A)**
Aliphatic and
hydrocarbons
resistant



Electro magnetic
interference
resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor
temp. in service
90 °C



Min. dynamic
operating bending
rad.
429.0 mm

Core identification

Pair: white - black

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

All weights, designations 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/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	1.5 mm ²
Conductor diameter	1.5 mm
Diameter over insulation	2.16 mm
Diameter over inner sheath	27.7 mm
Diameter over lead sheath	30.5 mm
Diameter over intermediate sheath	32.9 mm
Diameter over armour	36.1 mm
Minimum outer diameter	38.9 mm
Maximum outer diameter	42.9 mm
Approximate weight	4115 kg/km

Electrical characteristics

Rated Voltage U _o /U (U _m)	170/300V
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Mechanical characteristics

Mechanical resistance to impacts	Good
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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
Minimum dynamic operating bending radius	429.0 mm
Standard	EN



Rated Voltage U_o/U
(U_m)
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.
429.0 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 U_0/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



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