



Reference: 10135216  
EAN 13: 3427580322570

#### 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 60331; 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**. They maintain circuit integrity when exposed to fire.

#### Design

##### Conductor:

Stranded bare copper class 2

##### Insulation:

Silicone rubber (Sil)

##### Overall screen:

Polyester tape

Tinned copper drain wire,

Aluminium backed polyester tape

##### Inner sheath:

Low Smoke Zero Halogen (LSZH)

Colour: black

##### Lead sheath

##### Bedding (intermediate sheath):

Polyvinyl chloride (PVC)

Colour: black

##### Armour:

Galvanized steel wires (SWA)

##### Outer sheath:



Rated Voltage U<sub>o</sub>/U<sub>m</sub>  
170/300V



Mechanical resistance to impacts  
Good



Fire resistance  
IEC 60331



Polyvinyl chloride (PVC)  
Colour: black



Other colour on request.  
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 core designs with pair number and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynx<sup>eo</sup> is indicative only and shall not be binding on Lynx<sup>eo</sup> or be treated as constituting a representation on the part of Lynx<sup>eo</sup>.

#### Marking

NEXANS 279 SIL/OA.SCR/LSZH//LC/PVC/SWA/PVC 170/300V Nber of pairs & cross-

## CHARACTERISTICS

### Construction characteristics

|                     |   |
|---------------------|---|
| Conductor material  | Bare copper   |
| Type of conductor   | Stranded, class 2                                   |
| Insulation          | Silicone rubber                                     |
| Overall screen      | Tinned copper drain wire + aluminium/polyester tape |
| Inner sheath        | Low smoke, zero halogen thermoplastic compound      |
| Lead Sheath         | Yes   |
| Intermediate sheath | PVC   |
| Armour type         | Galvanized steel wires                              |
| Outer sheath        | PVC   |
| Protection          | Yes   |

### Dimensional characteristics

|                                   |                   |
|-----------------------------------|-------------------|
| Number of pairs                   | 2                 |
| Conductor cross-section           | 1 mm <sup>2</sup> |
| Conductor diameter                | 1.28 mm           |
| Diameter over insulation          | 2.44 mm           |
| Diameter over inner sheath        | 8 mm              |
| Diameter over lead sheath         | 9.8 mm            |
| Diameter over intermediate sheath | 11.8 mm           |
| Diameter over armour              | 13.6 mm           |
| Minimum outer diameter            | 15.3 mm           |
| Maximum outer diameter            | 17.8 mm           |
| Approximate weight                | 753 kg/km         |

### Electrical characteristics

|                                      |          |
|--------------------------------------|----------|
| Rated Voltage U <sub>0</sub> /U (Um) | 170/300V |
|--------------------------------------|----------|

### Mechanical characteristics

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

### Usage characteristics

|  |   |
|--|---|
| Fire resistant                           | IEC 60331                                     |
| 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  |



Rated Voltage U<sub>0</sub>/U (Um)  
170/300V



Mechanical resistance to impacts  
Good



Fire resistant  
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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

**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<sub>0</sub>/U  
(Um)  
**170/300V**



Mechanical  
resistance to  
impacts  
**Good**



Fire resistant  
**IEC 60331**



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**