



#### CONTACT

Market information  
industryprojects.business@lynx  
ogroup.com

- Instrumentation cables 170/300 V
- Individual & Overall Screen (IOS)
- **Oil resistant**

#### STANDARDS

Test IEC 60331; IEC 60332-3-22 Cat.A

#### APPLICATIONS

These Instrumentation and communication are used to **transmit analogue or digital signals in measurement and process control** They are well adapted **tounderground use in industrial applications where chemical and mechanical protections are needed (refinery areas, chemical plant...).** The **individual screening of each pair limits the consequence of crosstalk.** They maintain **circuit integrity when exposed to fire.**

#### Design

##### Conductor:

Stranded bare copper class 2

##### Insulation:

Silicone rubber (Sil)

##### Individual screen:

Polyester tape

Tinned copper drain wire

Aluminium/polyester tape

Polyester tape

##### Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium/polyester tape

##### Inner sheath:

Low Smoke Zero Halogen (LSZH)

##### Armour:

Galvanized steel wires (SWA)

##### Outer sheath:



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



Mechanical  
resistance to  
impacts  
**Good**



Polyvinyl chloride (PVC)  
Colour: black  
Fire EN 60331  
Other colour on request.  
Fire request.  
EN IEC 60332-3-22  
(cat A)

#### Core identification

Pair: white - black

White core printed with pair number

All drawings, designs, specifications, plans 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>.

NEXANS 279 SIL/IND.+OA.SCR/LSZH/SWA/PVC 170/300V Nber of pairs & cross-section  
Cu IEC 60331 IEC 60332-3-22(A) MM YYYY Manufacturing number + metric marking



Oil resistance  
**Yes**



Electro magnetic  
interference  
resistance  
**Yes**



Operating temp.  
**-20 ... 60 °C**



Max conductor  
temp.in service  
**90 °C**

### CHARACTERISTICS

#### Construction characteristics

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

#### Dimensional characteristics

|                            |                      |
|----------------------------|----------------------|
| Number of pairs            | 10                   |
| Conductor cross-section    | 0.75 mm <sup>2</sup> |
| Conductor diameter         | 1.1 mm               |
| Diameter over insulation   | 2.26 mm              |
| Diameter over inner sheath | 18.9 mm              |
| Diameter over armour       | 21.4 mm              |
| Minimum outer diameter     | 22.1 mm              |
| Maximum outer diameter     | 25.8 mm              |
| Approximate weight         | 1005 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) |
| Oil resistance                           | Yes                       |
| Electro magnetic interference resistance | Yes                       |
| Operating temperature, range             | -20 ... 60 °C             |
| Max. conductor temperature in service    | 90 °C                     |
| Standard                                 | EN                        |

### SELLING AND DELIVERY INFORMATION

Other fire performances IEC 60332-1 or IEC 60332-3-24(C) and enhanced hydrocarbon resistance 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)



Oil resistance  
Yes



Electro magnetic interference resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp. in service  
90 °C

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 resistant  
**IEC 60331**



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**