



CONTACT

Market information
industryprojects.business@lynx^{eo}.com
ogroup.com

- 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_o/U₁
(Um)
170/300V



Mechanical
resistance to
impacts
Good



Fire
resistance
IEC 60331



Polyvinyl chloride (PVC)
Colour: black



Other colour on request.
Fire resistance
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^{eo} is indicative only and shall not be binding on Lynx^{eo} or be treated as constituting a representation on the part of Lynx^{eo}.

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 | 30 |
| Conductor cross-section | 1 mm ² |
| Conductor diameter | 1.28 mm |
| Diameter over insulation | 2.44 mm |
| Diameter over inner sheath | 31 mm |
| Diameter over lead sheath | 34 mm |
| Diameter over intermediate sheath | 36.4 mm |
| Diameter over armour | 39.6 mm |
| Minimum outer diameter | 39.4 mm |
| Maximum outer diameter | 46.0 mm |
| Approximate weight | 4420 kg/km |

Electrical characteristics

| | |
|--------------------------------------|----------|
| Rated Voltage U ₀ /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 U₀/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

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 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