



**Reference:** 10098178  
**EAN 13:** 3427580121715

### CONTACT

Market information  
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- Instrumentation cables 300 V
- Overall screen (OS)
- **Low smoke, low halogen (LSLH)**
- **Oil resistant**

### STANDARDS

**Product** IEC 60228

**Test** IEC 60332-3-22 Cat.A; IEC 60754; IEC 61034

### APPLICATIONS

These cables are intended for transmission of analogue and digital signals. They allow transmission over long distances at high pulse rates. These cables are used in industrial installations (refineries, chemical plants, etc...) where there is a potential risk of mechanical damage.

### Design

#### Conductor:

Stranded bare copper (class 2)

#### Insulation:

Polyethylene (PE)

#### Overall screen:

Tinned copper drain wire

Aluminium/polyester tape

#### Inner sheath:

Polyvinyl chloride (PVC)

Colour: black

#### Armour:

Galvanized steel wires (SWA)

#### Outer sheath:

Polyvinyl chloride (PVC)

Special low smoke, low halogen (LSLH)

Colour: black or blue

Fire retardant: IEC 60332-3-22(A), limiting oxygen index > 30 as par ASTM D 2863

Low smoke: IEC 61034-2, transmittance > 40 %

Low halogen: IEC 60754-1 HCL < 6 %



Conductor flexibility  
**Stranded class 2**



Mechanical resistance to impacts  
**Good**



**Core identification**  
 Fire retardant  
 EN IEC 60332-3-22  
 Pair A Black/white



Oil resistance  
 ASTM D 1047



Smoke density  
**Low**



Operating temp.  
 -20 ... 60 °C



Max. conductor temp.in service  
 70 °C

Triple:Black/white/red

For multipair White core printed with pair number

### Marking

All the 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 YYYY RE - 2Y(St)YSWAY - fl LSLH 300V Nber of pairs & cross-section IEC 60332-3-22(A) + metric marking

## CHARACTERISTICS

### Construction characteristics

|                       |   |
|-----------------------|---|
| Conductor material    | Bare copper   |
| Conductor flexibility | Stranded class 2                                    |
| Insulation            | PE  |
| Overall screen        | Tinned copper drain wire + aluminium/polyester tape |
| Inner sheath          | PVC   |
| Armour type           | Galvanized steel wires                              |
| Outer sheath          | PVC   |
| Sheath colour         | Black   |

### Dimensional characteristics

|                            |                      |
|----------------------------|----------------------|
| Number of pairs            | 1                    |
| Conductor cross-section    | 0.75 mm <sup>2</sup> |
| Diameter over inner sheath | 5.9 mm               |
| Diameter over armour       | 7.7 mm               |
| Minimum outer diameter     | 10.0 mm              |
| Maximum outer diameter     | 11.1 mm              |
| Approximate weight         | 236 kg/km            |
| Number of triples          | -                    |

### Electrical characteristics

|                   |       |
|-------------------|-------|
| Operating voltage | 300 V |
|-------------------|-------|

### Mechanical characteristics

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

### Usage characteristics

|                                       |                           |
|---------------------------------------|---------------------------|
| Fire retardant                        | EN IEC 60332-3-22 (cat A) |
| Oil resistance                        | ASTM D 1047               |
| Smoke density                         | Low                       |
| Operating temperature, range          | -20 ... 60 °C             |
| Max. conductor temperature in service | 70 °C                     |
| Standard                              | EN                        |



Conductor flexibility  
Stranded class 2



Mechanical resistance to impacts  
Good



Fire retardant  
EN IEC 60332-3-22 (cat A)



Oil resistance  
ASTM D 1047



Smoke density  
Low



Operating temp.  
-20 ... 60 °C



Max. conductor temp. in service  
70 °C

**ELECTRICAL CHARACTERISTICS AT 20°C**

**Electrical data AT 20°C**

| Cables (mm <sup>2</sup> ) | Conductor Resistance max. (Ohm / km) | Insulation Resistance min. (Mohm.km) | Mutual Capacitance at 800 Hz maximum (nF / km) |               |               | L/R ratio max (µH / ohm) | Test Voltage (core/core) (V) |
|---------------------------|--------------------------------------|--------------------------------------|--|---------------|---------------|--------------------------|------------------------------|
|                           |                                      |                                      | Single pair                                    | Up to 4 pairs | Above 4 pairs |                          |                              |
| 0.5                       | 36.7                                 | 5 000                                | 115  | 95            | 80            | 25                       | 2 000                        |
| 0.75                      | 24.9                                 | 5 000                                | 115  | 95            | 80            | 25                       | 2 000                        |
| 1.34                      | 14.2                                 | 5 000                                | 115  | 95            | 80            | 40                       | 2 000                        |

**CORE IDENTIFICATION FOR 2 PAIR CABLES**

2 pairs: black P1 - black P2  
 white P1 -white P2



**SELLING AND DELIVERY INFORMATION**

Minimum bending radius:

- 10 x outer diameter
- To be doubled during laying operations

2 pair cables are assembled as a quad (black and white cores both printed with pair number)



Conductor flexibility  
 Stranded class 2



Mechanical resistance to impacts  
 Good



Fire retardant  
 EN IEC 60332-3-22 (cat A)



Oil resistance  
 ASTM D 1047



Smoke density  
 Low



Operating temp.  
 -20 ... 60 °C



Max. conductor temp.in service  
 70 °C