



**Reference:** 10101874  
**EAN 13:** 3427580154621

### 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 such as refineries, chemical plants etc...

### Design

#### Conductor:

Stranded bare copper (class 2)

#### Insulation:

Polyethylene (PE)

#### Overall screen:

Tinned copper drain wire

Aluminium/polyester tape

#### 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 %

### Core identification

Pair: Black/white

For multipair White core printed with pair number

### Marking

NEXANS 279 YYYY RE - 2Y(St)Y - fl LSLH 300V Nbr. of pairs & cross-section IEC 60332-3-22(A) + metric marking



Conductor flexibility  
 Stranded class 2



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

### Désignation

RE: Instrumentation cable  
 2Y: Polyethylene insulation  
 (St): Collective screen  
 Y: PVC sheath

fl Reduced flame propagation

All drawings, designations, specifications, 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.

### CHARACTERISTICS

#### Construction characteristics

|                       |   |
|-----------------------|---|
| Conductor material    | Bare copper   |
| Conductor flexibility | Stranded class 2                                    |
| Insulation            | PE  |
| Overall screen        | Tinned copper drain wire + aluminium/polyester tape |
| Outer sheath          | PVC   |
| Sheath colour         | Blue  |

#### Dimensional characteristics

|                         |                      |
|-------------------------|----------------------|
| Conductor cross-section | 1.34 mm <sup>2</sup> |
| Number of pairs         | 1                    |
| Minimum outer diameter  | 6.6 mm               |
| Maximum outer diameter  | 7.3 mm               |
| Approximate weight      | 75 kg/km             |

#### Electrical characteristics

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

#### 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                        |

### 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                        |



Conductor flexibility  
Stranded class 2



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

## 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



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