



### CONTACT

Market information  
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- Instrumentation cables 170/300 V
- Overall Screen (OS)
- **Oil resistant**

### STANDARDS

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

### APPLICATIONS

These instrumentation and communication cable are used to **transmit analogue or digital signals in measurement and process control**. They are well adapted to **underground use in industrial application where chemical and mechanical protections are needed (refinery areas, chemical plant...)**. 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

#### Bedding (inner sheath):

Low Smoke Zero Halogen (LSZH)

Colour: black

#### Armour:

Galvanized steel wires (SWA)

#### Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request.

### Core identification

Pair: white - black

Quad: white - black - red - blue (2 pair cables assembled as a quad)  
 White core printed with pair number



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



Mechanical resistance to impacts  
**Good**



Fire class  
**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**

### Marking

**NEXANS 279 SIL/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

### Standards

All drawings, designs, specifications, plans and particulars of weights, size and dimensions concerning **EN 50288-7 (Design guide lines)** 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   |
| 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      |
| Armour type        | Galvanized steel wires                              |
| Outer sheath       | PVC   |
| Protection         | Yes   |

#### Dimensional characteristics

|                            |                     |
|----------------------------|---------------------|
| Number of pairs            | 20                  |
| Conductor cross-section    | 2.5 mm <sup>2</sup> |
| Conductor diameter         | 1.91 mm             |
| Diameter over insulation   | 3.07 mm             |
| Diameter over inner sheath | 31.8 mm             |
| Diameter over armour       | 35.0 mm             |
| Minimum outer diameter     | 35.1 mm             |
| Maximum outer diameter     | 41.0 mm             |
| Approximate weight         | 2672 kg/km          |

#### Electrical characteristics

|                                      |          |
|--------------------------------------|----------|
| Rated Voltage U <sub>o</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.

Minimum bending radius:



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170/300V



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Good



Fire resistant  
IEC 60331



Fire retardant  
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Oil resistance  
Yes



Electro magnetic interference resistance  
Yes



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Max. conductor temp. in service  
90 °C

15 x outer diameter  
To be doubled during laying operations

Tinned copper conductors available on request



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(Um)  
**170/300V**



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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**