



**Reference:** 10134793  
**EAN 13:** 3427580318443

#### CONTACT

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

#### STANDARDS

**Test** 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...)**.

#### Design

##### Conductor:

Stranded bare copper class 2

##### Insulation:

Cross-linked polyethylene (XLPE)

##### Overall screen:

Polyester tape

Tinned copper drain wire,

Aluminium backed polyester tape

##### Inner sheath:

Polyvinyl chloride (PVC).

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 Uo/U (Um)  
170/300V



Mechanical resistance to impacts  
Good



Fire retardant  
EN IEC 60332-3-22 Cat.A



Oil resistance



Electro magnetic interference resistance  
Yes



Operating temp.  
70/90°C



Max. conductor temp.in service  
90°C

#### Marking

EN IEC 60332-3-22 Cat.A  
 NEXANS 279 XLPE/OA.SCR/PVC/SWA/PVC 170/300V Nbr of pairs & cross-section  
 Cu IEC 60332-3-22(A) MM YYYY Manufacturing number + metric marking

#### Standards

EN 50288-7 (design guidelines)  
 All drawings, design guidelines and particulars of 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   |
| Type of conductor  | Stranded, class 2                                   |
| Insulation         | XLPE (Cross-linked Polyethylene)                    |
| Overall screen     | Tinned copper drain wire + aluminium/polyester tape |
| Inner sheath       | PVC   |
| Armour type        | Galvanized steel wires                              |
| Outer sheath       | PVC   |
| Protection         | Yes   |

#### Dimensional characteristics

|                            |                     |
|----------------------------|---------------------|
| Number of pairs            | 1                   |
| Conductor cross-section    | 1.5 mm <sup>2</sup> |
| Conductor diameter         | 1.5 mm              |
| Diameter over insulation   | 2.16 mm             |
| Diameter over inner sheath | 6.5 mm              |
| Diameter over armour       | 8.3 mm              |
| Minimum outer diameter     | 10.6 mm             |
| Maximum outer diameter     | 11.7 mm             |
| Approximate weight         | 246 kg/km           |

#### Electrical characteristics

|                                      |          |
|--------------------------------------|----------|
| Rated Voltage U <sub>o</sub> /U (Um) | 170/300V |
|--------------------------------------|----------|

#### Mechanical characteristics

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

#### Usage characteristics

|  |                           |
|--|---------------------------|
| 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:



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



Mechanical resistance to impacts  
Good



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

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 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