



#### CONTACT

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

#### STANDARDS

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

#### APPLICATIONS

These Instrumentation and communication are used to **transmit analogue or digital signals in measurement and process control**. They are well adapted to **underground use in industrial applications where chemical and mechanical protections are needed (refinery areas, chemical plant...)**. The individual screening of each pair limits the consequence of crosstalk. They maintain circuit integrity when exposed to fire.

#### Design

##### Conductor:

Stranded bare copper class 2

##### Insulation:

Silicone rubber (Sil)

##### Individual screen:

Polyester tape

Tinned copper drain wire

Aluminium/polyester tape

Polyester tape

##### Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium/polyester tape

##### Inner sheath:

Low Smoke Zero Halogen (LSZH)

##### Armour:

Galvanized steel wires (SWA)

##### Outer sheath:



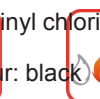
Rated Voltage U<sub>o</sub>/U  
(Um)  
**170/300V**



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)



Oil resistance  
**Yes**



Electro magnetic  
interference  
resistance  
**Yes**



Operating temp.  
**-20 ... 60 °C**



Max. conductor  
temp. in service  
**90 °C**

#### Core identification

Pair: white - black

White core printed with pair number

All drawings, designs, specifications, plans 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.

#### Marking

NEXANS 279 SIL/IND.+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

## CHARACTERISTICS

## Construction characteristics

Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	Silicone rubber
Individual screen	Tinned copper drain wire + aluminium/polyester tape
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	10
Conductor cross-section	1 mm <sup>2</sup>
Conductor diameter	1.28 mm
Diameter over insulation	2.44 mm
Diameter over inner sheath	20.2 mm
Diameter over armour	22.7 mm
Minimum outer diameter	23.3 mm
Maximum outer diameter	27.2 mm
Approximate weight	1123 kg/km

## Electrical characteristics

Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	170/300V
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## Mechanical characteristics

Mechanical resistance to impacts	Good
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## 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.



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



Mechanical 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

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)



Oil resistance  
**Yes**



Electro magnetic  
interference  
resistance  
**Yes**



Operating temp.  
**-20 ... 60 °C**



Max. conductor  
temp. in service  
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