



#### 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 test  
**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 conforming to the design guide lines of Lynxéo are 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
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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.

Minimum bending radius:



Rated Voltage U<sub>o</sub>/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  
90 °C

15 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  
**90 °C**