



#### CONTACT

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

#### STANDARDS

Test 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 **tounderground 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.

#### Design

##### Conductor:

Stranded bare copper class 2

##### Insulation:

Cross-linked polyethylene (XLPE)

##### Individual screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

Polyester tape

##### Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

##### Inner sheath:

Polyvinyl chloride (PVC)

##### Armour:

Galvanized steel wires (SWA)

##### Outer sheath:

Polyvinyl chloride (PVC)



Rated Voltage Uo/U  
(Um)  
170/300V



Mechanical resistance  
to impacts  
Good



Colour: black  
Other colour on request

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

#### Core identification

Pair: white - black  
White core printed with pair number

#### Marking

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.  
NEXANS 279 XLPE/IND.+OA.SCR/PVC/SWA/PVC 170/300V Nber of pairs & cross-section  
Cu 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	XLPE (Cross-linked Polyethylene)
Individual screen	Tinned copper drain wire + aluminium/polyester tape
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	30
Conductor cross-section	1 mm²
Conductor diameter	1.28 mm
Diameter over insulation	1.76 mm
Diameter over inner sheath	24.4 mm
Diameter over armour	26.9 mm
Minimum outer diameter	29.4 mm
Maximum outer diameter	32.4 mm
Approximate weight	1779 kg/km

#### Electrical characteristics

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

Mechanical resistance to impacts	Good
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#### 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>0</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**