



#### 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 where chemicals may be present.**

#### Design

##### Conductor:

Stranded bare copper class 2

##### Insulation:

Cross-linked polyethylene (XLPE)

##### Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

##### 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

#### Marking

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

#### Standards

EN 50288-7 (Design guide-lines)



Rated Voltage  $U_0/U$  (Um)  
**170/300V**



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**

## 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
Outer sheath	PVC
Protection	no

### Dimensional characteristics

Number of pairs	30
Conductor cross-section	2.5 mm <sup>2</sup>
Diameter over insulation	2.57 mm
Approximate weight	1785 kg/km
Conductor diameter	1.91 mm
Maximum outer diameter	36.3 mm
Minimum outer diameter	32.9 mm

### Electrical characteristics

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

10 x outer diameter  
To be doubled during laying operations

Tinned copper conductors available on request



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



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