



## 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

#### Electrical characteristics

Rated Voltage U <sub>0</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

### SECTION 0.5MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	0.9	1.38	5.2	5.7	43
2	0.9	1.38	5.8	6.4	56
5	0.9	1.38	10.4	11.4	130
10	0.9	1.38	13.0	14.3	204
20	0.9	1.38	16.5	18.2	335
30	0.9	1.38	19.3	21.3	464

### SECTION 0.75MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.1	1.58	5.6	6.2	53
2	1.1	1.58	6.2	6.9	72
5	1.1	1.58	11.3	12.5	169
10	1.1	1.58	14.4	15.8	278
20	1.1	1.58	18.2	20.1	469



Rated Voltage U<sub>0</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

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
30	1.1	1.58	21.6	23.9	674

### SECTION 1.0MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.28	1.76	5.9	6.6	60
2	1.28	1.76	6.7	7.4	84
5	1.28	1.76	12.2	13.5	199
10	1.28	1.76	15.6	17.2	332
20	1.28	1.76	20.0	22.0	571
30	1.28	1.76	23.7	26.1	818

### SECTION 1.5MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.5	2.16	6.7	7.4	80
2	1.5	2.16	7.6	8.4	116
5	1.5	2.16	14.2	15.6	277
10	1.5	2.16	18.3	20.2	480
20	1.5	2.16	23.6	26.0	844
30	1.5	2.16	27.9	30.8	1237

### SECTION 2.5MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.91	2.57	7.5	8.3	104
2	1.91	2.57	8.5	9.4	157
5	1.91	2.57	16.2	17.9	381
10	1.91	2.57	21.0	23.2	675
20	1.91	2.57	27.4	30.2	1210
30	1.91	2.57	32.9	36.3	1785



Rated Voltage U<sub>0</sub>/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

**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  $U_0/U$  (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**