



- 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 where chemicals may be present. 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,

Copper 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 SIL/OA.SCR/PVC 170/300V Nber of pairs & cross-section Cu IEC 60331 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 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

## CONTACT

Market information  
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**CHARACTERISTICS****Construction characteristics**

Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	Silicone rubber
Overall screen	Tinned copper drain wire + copper polyester tape
Outer sheath	PVC
Protection	no

**Dimensional characteristics**

Number of pairs	1
Conductor cross-section	2.5 mm <sup>2</sup>
Conductor diameter	1.91 mm
Diameter over insulation	3.07 mm
Minimum outer diameter	8.1 mm
Maximum outer diameter	9.4 mm
Approximate weight	126 kg/km

**Electrical characteristics**

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

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



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IEC 60331



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EN IEC 60332-3-22  
(cat A)



Oil resistance  
Yes



Electro magnetic  
interference resistance  
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