



- 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**

CONTACT

Market information
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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 U₀/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

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 | 5 |
| Conductor cross-section | 1 mm ² |
| Conductor diameter | 1.28 mm |
| Diameter over insulation | 2.44 mm |
| Minimum outer diameter | 14.7 mm |
| Maximum outer diameter | 17.1 mm |
| Approximate weight | 271 kg/km |

Electrical characteristics

| | |
|---|----------|
| Rated Voltage U ₀ /U (U _m) | 170/300V |
|---|----------|

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



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(cat A)



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