



CONTACT

Market information
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- 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**. They are well adapted to **underground use in industrial application where chemical and mechanical protections are needed** (refinery areas, chemical plant...). 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

Aluminium backed polyester tape

Bedding (inner sheath):

Low Smoke Zero Halogen (LSZH)

Colour: black

Armour:

Galvanized steel wires (SWA)

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



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



Mechanical
resistance to
impacts
Good



Fire test
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

Marking

NEXANS 279 SIL/OA.SCR/LSZH/SWA/PVC 170/300V Nber of pairs & cross-section
Cu IEC 60331 IEC 60332-3-22(A) MM YYYY Manufacturing number + metric marking

Standards

All drawings, designs, specifications, plans and particulars of weights, size and dimensions conforming to the design guide lines of Lynxéo are indicative only and shall not be binding on Lynxéo or be treated as constituting a representation on the part of Lynxéo.

CHARACTERISTICS**Construction characteristics**

| | |
|--------------------|---|
| Conductor material | Bare copper |
| Type of conductor | Stranded, class 2 |
| Insulation | Silicone rubber |
| Overall screen | Tinned copper drain wire + aluminium/polyester tape |
| Inner sheath | Low smoke, zero halogen thermoplastic compound |
| Armour type | Galvanized steel wires |
| Outer sheath | PVC |
| Protection | Yes |

Dimensional characteristics

| | |
|----------------------------|---------------------|
| Number of pairs | 10 |
| Conductor cross-section | 2.5 mm ² |
| Conductor diameter | 1.91 mm |
| Diameter over insulation | 3.07 mm |
| Diameter over inner sheath | 23.6 mm |
| Diameter over armour | 26.1 mm |
| Minimum outer diameter | 26.7 mm |
| Maximum outer diameter | 31.2 mm |
| Approximate weight | 1510 kg/km |

Electrical characteristics

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

Mechanical characteristics

| | |
|----------------------------------|------|
| Mechanical resistance to impacts | Good |
|----------------------------------|------|

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:



Rated Voltage U₀/U (Um)
170/300V



Mechanical resistance to impacts
Good



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

15 x outer diameter
To be doubled during laying operations

Tinned copper conductors available on request



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(Um)
170/300V



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impacts
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Fire resistant
IEC 60331



Fire retardant
EN IEC 60332-3-22
(cat A)



Oil resistance
Yes



Electro magnetic
interference
resistance
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Operating temp.
-20 ... 60 °C



Max. conductor
temp. in service
90 °C