



### CONTACT

Market information  
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- Instrumentation cables 170/300 V
- Overall Screen (OS)
- **Oil resistant**

### STANDARDS

Ensayo 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



Tensión nominal de servicio U<sub>0</sub>/U  
 170/300V



Resistencia mecánica a impactos  
 Buena



Resistencia al fuego  
 IEC 60331



No propagador del incendio  
 EN IEC 60332-3-22 (Cat A)



Resistencia a aceites  
 Sí



Resistencia a interferencias electromagnéticas



Temp. ambiente de utilización  
 -20 ... 60 °C



Max.conductor temp.in service  
 90 °C

### Marking

NEXANS 2x2x2,5 SIL/OA.SCR/LSZH/SWA5PVC 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 (EN 50288-7) documentation of Lynxéo is indicative only and shall not be binding on Lynxéo or be treated as constituting a representation on the part of Lynxéo.

### CHARACTERISTICS

#### Características de construcción

|                        |                                                     |
|------------------------|-----------------------------------------------------|
| Material del conductor | Cobre desnudo                                       |
| Type of conductor      | Stranded, class 2                                   |
| Aislamiento            | Silicone rubber                                     |
| Overall screen         | Tinned copper drain wire + aluminium/polyester tape |
| Cubierta interior      | Low smoke, zero halogen thermoplastic compound      |
| Tipo de armadura       | Alambres de acero galvanizado                       |
| Cubierta exterior      | PVC                                                 |
| Protección             | Yes                                                 |

#### Características dimensionales

|                            |                     |
|----------------------------|---------------------|
| Número de pares            | 2                   |
| Sección del conductor      | 2,5 mm <sup>2</sup> |
| Diámetro del conductor     | 1,91 mm             |
| Diámetro sobre aislamiento | 3,07 mm             |
| Diameter over inner sheath | 9,5 mm              |
| Diameter over armour       | 11,3 mm             |
| Diámetro exterior mínimo   | 13,0 mm             |
| Diámetro exterior máximo   | 15,1 mm             |
| Peso aproximado            | 424 kg/km           |

#### Características eléctricas

|                                               |          |
|-----------------------------------------------|----------|
| Tensión nominal de servicio U <sub>o</sub> /U | 170/300V |
|-----------------------------------------------|----------|

#### Características mecánicas

|                                 |       |
|---------------------------------|-------|
| Resistencia mecánica a impactos | Buena |
|---------------------------------|-------|

#### Características de uso

|                                                |                           |
|------------------------------------------------|---------------------------|
| Resistente al fuego                            | IEC 60331                 |
| No propagador del incendio                     | EN IEC 60332-3-22 (cat A) |
| Resistencia a aceites                          | Si                        |
| Resistencia a interferencias electromagnéticas | Si                        |
| Temperatura ambiente de utilización (rango)    | -20 ... 60 °C             |
| Temperatura máxima del conductor               | 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:



Tensión nominal de servicio U<sub>o</sub>/U  
170/300V



Resistencia mecánica a impactos  
Buena



Resistente al fuego  
IEC 60331



No propagador del incendio  
EN IEC 60332-3-22 (cat A)



Resistencia a aceites  
Si



Resistencia a interferencias electromagnéticas  
Si



Temp. ambiente de utilización  
-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



Tensión nominal de servicio U<sub>o</sub>/U  
**170/300V**



Resistencia mecánica a impactos  
**Buena**



Resistente al fuego  
**IEC 60331**



No propagador del incendio  
**EN IEC 60332-3-22 (cat A)**



Resistencia a aceites  
**Sí**



Resistencia a interferencias electromagnéticas  
**Sí**



Temp. ambiente de utilización  
**-20 ... 60 °C**



Max. conductor temp. in service  
**90 °C**