



- Instrumentation cables 170/300 V
- Individual & Overall Screen (IOS)
- **Oil resistant**

STANDARDS

Ensayo IEC 60331; IEC 60332-3-22 Cat.A

APPLICATIONS

These Instrumentation and communication are used to **transmit analogue or digital signals in measurement and process control** They are well adapted **tounderground use in industrial applications where chemical and mechanical protections are needed (refinery areas, chemical plant...).** The **individual screening of each pair limits the consequence of crosstalk.** They **maintain circuit integrity when exposed to fire.**

Design

Conductor:

Stranded bare copper class 2

Insulation:

Silicone rubber (Sil)

Individual screen:

Polyester tape

Tinned copper drain wire

Aluminium/polyester tape

Polyester tape

Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium/polyester tape

Inner sheath:

Low Smoke Zero Halogen (LSZH)

Armour:

Galvanized steel wires (SWA)

Outer sheath:

CONTACT

Market information
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Tensión nominal de servicio Uo/U
170/300V



Resistencia mecánica a impactos
Buena



Polyvinyl chloride (PVC)
Colour: black
Resistencia a la propagación del incendio
EN IEC 60332-3-22
Other colour on request



Resistencia a aceites
Si



Resistencia a interferencias electromagnéticas
Si



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



Max.conductor temp.in service
90 °C



Max.conductor temp.in service
90 °C

Core identification

Pair: white - black

White core printed with pair number

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial 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.

Marking

NEXANS 279 SIL/IND.+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

CHARACTERISTICS

Características de construcción

Material del conductor	Cobre desnudo
Type of conductor	Stranded, class 2
Aislamiento	Silicone rubber
Individual screen	Tinned copper drain wire + aluminium/polyester tape
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 eléctricas

Tensión nominal de servicio U ₀ /U	170/300V
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Características mecánicas

Resistencia mecánica a impactos	Buena
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Características de uso

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
Temperatura ambiente de utilización (rango)	-20 ... 60 °C
Temperatura máxima del conductor	90 °C
Standard	EN

SECTION 1.0MM²

Reference	nb pair s	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Diámetro exterior mínimo [mm]	Diámetro ext. máximo [mm]	Peso aprox. [kg/km]
10135125	2	1,28	2,44	11,3	13,1	14,6	17,0	413
	5	1,28	2,44	15,1	16,9	18,3	21,3	637
	10	1,28	2,44	20,2	22,7	23,3	27,2	1123
10135130	20	1,28	2,44	26,5	29,0	29,3	34,2	1768
	30	1,28	2,44	32,6	35,8	35,6	41,6	2597



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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

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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Resistencia mecánica a impactos
Buena



Resistente al fuego
IEC 60331



No propagador del incendio
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Resistencia a aceites
Sí



Resistencia a interferencias electromagnéticas
Sí



Temp. ambiente de utilización
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Max.conductor temp.in service
90 °C