



- Instrumentation cables 170/300 V
- Overall Screen (OS)
- Lead free
- Aliphatic and aromatic hydrocarbons resistant

## STANDARDS

Ensayo IEC 60332-3-22 Cat.A

## APPLICATIONS

These instrumentation and communication cables are used to **transmit analogue or digital signals in measurement and process control in moist areas and where aliphatic and aromatic hydrocarbons may be present.** They are well adapted to **underground use in industrial applications where chemical and mechanical protections are needed (refinery areas, chemical plant...).** Hypron® offers an **alternative to conventional lead sheathed cable and is an environmental friendly solution..**

## Design

### Conductor:

Stranded bare copper class 2

### Insulation:

Cross-linked polyethylene (XLPE)

### Binder tape

### Bedding

### Inner sheath:

Polyvinyl chloride (PVC)

Colour: black

### Overall screen/sealing barrier:

Tinned copper drain wire

Aluminium backed polyethylene tape

### Bedding:

High density polyethylene (PE)

Colour: black

### Special sheath(intermediate sheath):

Polyamide

### Armour:

Galvanized steel wires (SWA)

Other sheath:  
 Resistencia mecánica a impactos  
 Buena  
 Resistencia al propagador del incendio  
 EN IEC 60332-3-22  
 Buena  
 Polyvinyl chloride (PVC)

Resistencia química  
**Aliphatic and aromatic hydrocarbons resistant**

Resistencia a interferencias electromagnéticas  
 Si

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

Max.conductor temp.in service  
 90 °C



Libre de plomo  
 Si



Tensión nominal de servicio Uo/U  
 170/300V



Resistencia mecánica a impactos  
 Buena



Resistencia al propagador del incendio  
 Buena



Resistencia química  
**Aliphatic and aromatic hydrocarbons resistant**



Resistencia a interferencias electromagnéticas  
 Si



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



Max.conductor temp.in service  
 90 °C

Colour: black

Other colour on request.

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. This document is constituting a representation on the part of Lynxéo.

## Core identification

Pair: white - black

## CONTACT

Market information  
 industryprojects.business@lynxeogroup.com

## CHARACTERISTICS

### Características de construcción

Material del conductor	Cobre desnudo
Type of conductor	Stranded, class 2
Aislamiento	XLPE
Cubierta interior	PVC
Overall screen	Tinned copper drain wire + aluminium/polyethylene tape
Material of bedding	High-density polyethylene (PE)
Intermediate sheath	Polyamide
Tipo de armadura	Alambres de acero galvanizado
Cubierta exterior	PVC
Libre de plomo	Sí
Protección	Yes

### Características eléctricas

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

Resistencia mecánica a impactos	Buena
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### Características de uso

No propagador del incendio	EN IEC 60332-3-22 (cat A)
Resistencia química	Aliphatic and aromatic hydrocarbons resistant
Resistencia a interferencias electromagnéticas	Sí
Temperatura ambiente de utilización (rango)	-20 ... 60 °C
Temperatura máxima del conductor	90 °C
Standard	EN

## SECTION 1.0MM<sup>2</sup>

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Diam. over armour [mm]	Diámetro exterior mínimo [mm]	Diámetro ext. máximo [mm]	Peso aprox. [kg/km]
	1	1,28	1,76	6	9,2	11,0	16,5	18,2	475
	2	1,28	1,76	6,8	10	11,8	17,2	19,0	530
10187683	5	1,28	1,76	11,3	14,7	16,5	21,8	24,1	742
10187686	10	1,28	1,76	14,8	18,4	20,9	26,1	28,8	1137
	20	1,28	1,76	19,2	23	25,5	30,6	33,7	1564
	30	1,28	1,76	23	26,7	29,2	34,1	37,7	1959



Libre de plomo  
Sí



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Resistencia mecánica a impactos  
Buena



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



Resistencia química  
Aliphatic and aromatic hydrocarbons resistant



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) on request.

Minimum bending radius:

15 x outer diameter  
To be doubled during laying operations

Tinned copper conductors available on request



Libre de plomo  
Si



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