



- Instrumentation cables 170/300 V
- Individual & Overall Screen (IOS)
- Lead free
- **Aliphatic and aromatic hydrocarbons resistant**

STANDARDS

Test 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 in moist areas and where aliphatic and aromatic hydrocarbons may be present. The individual screening of each pair limits the consequence of crosstalk. Hypron® offers an alternative to conventional lead covered cable and is an environmental friendly solution.**

Design

Conductor:

Stranded bare copper class 2

Insulation:

Cross-linked polyethylene (XLPE)

Individual screen:

- Binder tape
- Tinned copper drain wire
- Aluminium backed polyester tape

Binder tape

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)

EN IEC 60332-3-22 (cat A)

Polyamide



Aliphatic and aromatic hydrocarbons resistant



Electro magnetic interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp. in service
90 °C



Lead free
Yes



Rated Voltage U₀/U
(U_m)
170/300V

CONTACT

Market information
industryprojects.business@lynxéogroup.com

Outer sheath:

Polyvinyl chloride (PVC)

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.

Other colour on request

CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	XLPE (Cross-linked Polyethylene)
Individual screen	Tinned copper drain wire + aluminium/polyester tape
Inner sheath	PVC
Overall screen	Tinned copper drain wire + aluminium/polyethylene tape
Material of bedding	High-density polyethylene (PE)
Intermediate sheath	Polyamide
Outer sheath	PVC
Lead free	Yes
Protection	no

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	170/300V
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Usage characteristics

Fire retardant	EN IEC 60332-3-22 (cat A)
Chemical resistance	Aliphatic and aromatic hydrocarbons resistant
Electro magnetic interference resistance	Yes
Operating temperature, range	-20 ... 60 °C
Max. conductor temperature in service	90 °C
Standard	EN

SECTION 0.5MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
2	0.9	1.38	7.9	11.3	16.8	18.5	306
5	0.9	1.38	10.2	13.5	18.9	20.9	411
10	0.9	1.38	13.1	16.6	21.9	24.2	571
20	0.9	1.38	16.9	20.6	25.8	28.5	836
30	0.9	1.38	20.1	23.8	28.9	31.9	1092



Lead free
Yes



Rated Voltage U₀/U (U_m)
170/300V



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



Chemical resistance
Aliphatic and aromatic hydrocarbons resistant



Electro magnetic interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp. in service
90 °C

SECTION 0.75MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Approx. weight [kg/km]	Max. outer diam. [mm]
2	1.1	1.58	8.6	12	17.5	336	19.3
5	1.1	1.58	11.2	14.5	19.9	469	21.9
10	1.1	1.58	14.6	18.1	23.4	671	25.8
20	1.1	1.58	18.8	22.5	27.6	1006	30.5
30	1.1	1.58	22.5	26.2	31.2	1332	34.5

SECTION 1.0MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
2	1.28	1.76	9.3	12.7	18.1	20.0	364
5	1.28	1.76	12.1	15.4	20.8	22.9	514
10	1.28	1.76	15.7	19.2	24.4	27.0	749
20	1.28	1.76	20.5	24.2	29.3	32.3	1147
30	1.28	1.76	24.6	28.3	33.3	36.7	1540

SECTION 1.5MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
2	1.5	2.16	10.7	14.1	19.5	21.5	421
5	1.5	2.16	14	17.3	22.6	24.9	622
10	1.5	2.16	18.5	22	27.2	30.0	943
20	1.5	2.16	24.3	28	33.0	36.4	1484
30	1.5	2.16	29.2	32.9	37.7	41.6	2025

SECTION 2.5MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
2	1.91	2.57	12.2	15.6	21.0	23.1	505
5	1.91	2.57	16.1	19.4	24.6	27.2	761
10	1.91	2.57	21.5	25	30.1	33.2	1193



Lead free
Yes



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(U_m)
170/300V



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



Chemical resistance
Aliphatic and
aromatic
hydrocarbons
resistant



Electro magnetic
interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp. in
service
90 °C

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
20	1.91	2.57	28.2	31.9	36.8	40.6	1927
30	1.91	2.57	34	37.7	42.4	46.8	2679

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



Lead free
Yes



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170/300V



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(cat A)



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