



- Instrumentation cables 170/300 V
- Individual & Overall Screen (IOS)
- **Oil 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 where chemicals may be present. The individual screening of each pair limits the consequence of crosstalk.**

### Design

#### Conductor:

Stranded bare copper class 2

#### Insulation:

Cross-linked polyethylene (XLPE)

#### Individual screen:

Polyester tape

Tinned copper drain wire,

Aluminium backed polyester tape

Polyester tape

#### Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

#### Outer sheath:

Polyvinyl chloride (PVC).

Colour: black.

Other colour on request.

### Core identification

Pair: white - black

White core printed with pair number



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



Fire retardant  
**EN IEC 60332-3-22  
Cat.A)**



Oil resistance  
**EN IEC 60332-3-22  
(Cat.A)**



Resistance to magnetic interference  
**EN IEC 60332-3-22  
(Cat.A)**



Operating temp.  
**20+/-10°C**



Max. conductor temp.  
**90 °C**

### Standards

EN 50288-7 (Design guide-lines)

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### CONTACT

Market information  
industryprojects.business@lynx<sup>eo</sup>  
group.com

## 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
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Outer sheath	PVC
Protection	no

### Dimensional characteristics

Number of pairs	30
Conductor cross-section	0.5 mm <sup>2</sup>
Conductor diameter	0.9 mm
Diameter over insulation	1.38 mm
Minimum outer diameter	20.8 mm
Maximum outer diameter	22.9 mm
Approximate weight	687 kg/km

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (Um)	170/300V
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### Usage characteristics

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:

10 x outer diameter  
To be doubled during laying operations

Tinned copper conductors available on request



Rated Voltage U<sub>0</sub>/U (Um)  
170/300V



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