



**Reference:** 10101884  
**EAN 13:** 3427580280986

### CONTACT

Market information  
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- Instrumentation cables 300 V
- Individual & Overall Screen (OS)
- **Low smoke, low halogen (LSLH)**
- **Oil resistant**

### STANDARDS

**Product** IEC 60228

**Test** IEC 60332-3-22 Cat.A; IEC 60754; IEC 61034

### APPLICATIONS

These cables are intended for transmission of analogue and digital signals. They allow transmission over long distances at high pulse rates. The individual screening of each pair limits the consequence of crosstalk. These cables are used in industrial installations such as refineries, chemical plants etc where there is a potential risk of mechanical damage.

### Design

#### Conductor:

Stranded bare copper (class 2)

#### Insulation:

Polyethylene (PE)

#### Individual screen:

Tinned copper drain wire

Aluminium/polyester tape

#### Overall screen:

Tinned copper drain wire

Aluminium/polyester tape

#### Inner sheath:

Polyvinyl chloride (PVC)

Colour: black

#### Armour:

Galvanized steel wires (SWA)

#### Outer sheath:

Polyvinyl chloride (PVC)

Special low smoke, low halogen (LSLH)

Colour: black or blue

Fire retardant: IEC 60332-3-22(A), limiting oxygen index > 30 as per ASTM D 2863

Oil resistance: IEC 60332-3-22 (cat A), ASTM D 1047  
 Low Smoke: IEC 61034-2, transmittance > 40 %

Low halogen: IEC 60754-1 HCL < 6 %



Conductor flexibility  
**Stranded class 2**



Mechanical resistance to impacts  
**Good**



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



Oil resistance  
 ASTM D 1047



Smoke density  
 Low > 40 %



Operating temp.  
 -20 ... 60 °C



Max. conductor temp. in service  
 70 °C

### Core identification

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained herein for technical or commercial documentation of Lynx<sup>eo</sup> is indicative only and shall not be binding for any purpose. For multiple copies, please contact the sales department on the part of Lynx<sup>eo</sup>.

### Marking

## CHARACTERISTICS

### Construction characteristics

Conductor material	Bare copper
Conductor flexibility	Stranded class 2
Insulation	PE
Individual screen	Tinned copper drain wire + aluminium/polyester tape
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Inner sheath	PVC
Armour type	Galvanized steel wires
Outer sheath	PVC
Sheath colour	Blue

### Dimensional characteristics

Conductor cross-section	0.5 mm <sup>2</sup>
Number of pairs	4
Diameter over inner sheath	7.9 mm
Diameter over armour	9.9 mm
Minimum outer diameter	14.1 mm
Maximum outer diameter	15.5 mm
Approximate weight	397 kg/km

### Electrical characteristics

Operating voltage	300 V
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### Mechanical characteristics

Mechanical resistance to impacts	Good
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### Usage characteristics

Fire retardant	EN IEC 60332-3-22 (cat A)
Oil resistance	ASTM D 1047
Smoke density	Low
Operating temperature, range	-20 ... 60 °C
Max. conductor temperature in service	70 °C
Standard	EN



Conductor flexibility  
Stranded class 2



Mechanical resistance to impacts  
Good



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



Oil resistance  
ASTM D 1047



Smoke density  
Low



Operating temp.  
-20 ... 60 °C



Max. conductor temp. in service  
70 °C

## ELECTRICAL CHARACTERISTICS

### Electrical data AT 20°C

Cables (mm <sup>2</sup> )	Conductor Resistance max. (Ohm / km)	Insulation Resistance min. (Mohm.km)	Mutual Capacitance at 800 Hz maximum (nF / km)	L/R ratio max (µH / ohm)	Test Voltage (core/core) (V)
0.5	36.7	5 000	115	25	2 000
0.75	24.9	5 000	115	25	2 000
1.34	14.2	5 000	115	40	2 000

## SELLING AND DELIVERY INFORMATION

Minimum bending radius:

- 10 x outer diameter
- To be doubled during laying operations



Conductor flexibility  
Stranded class 2



Mechanical resistance to impacts  
Good



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



Oil resistance  
ASTM D 1047



Smoke density  
Low



Operating temp.  
-20 ... 60 °C



Max. conductor temp.in service  
70 °C