



### 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 1044  
Low smoke: IEC 61034-2, transmittance > 40%

Low halogen: IEC 60754-1 HCL < 6 %



Conductor flexibility  
Stranded class 2



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



Oil resistance  
ASTM D 1044



Smoke density  
IEC 61034-2



Operating temp.  
> 40°C



Max. conductor temp. in service  
70 °C

### Core identification

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in technical or commercial documentation of Lynx<sup>eo</sup> is indicative only and shall not be binding for any type of white label printed with a representation 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

### Electrical characteristics

Operating voltage	300 V
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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

## SECTION 0.5 MM<sup>2</sup>

Reference	nb pairs	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Sheath colour
10098194	2	6.4	8.4	12.4	13.7	313	Black
10098195	4	7.9	9.9	14.1	15.5	397	Black
10101884	4	7.9	9.9	14.1	15.5	397	Blue
10098196	8	10.6	12.6	16.7	18.4	552	Black
10098198	12	13	15.0	19.2	21.2	709	Black
10098199	16	15.4	17.4	21.5	23.8	862	Black
10098200	20	16.8	18.8	23.8	26.2	1140	Black
10098201	24	18.3	20.3	25.2	27.8	1278	Black



Conductor flexibility  
Stranded class 2



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

## SECTION 0.75 MM<sup>2</sup>

Reference	nb pairs	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Sheath colour
10098202	2	6.3	8.3	12.4	13.6	309	Black
10101885	2	6.3	8.3	12.4	13.6	309	Blue
10098203	4	7.8	9.8	14.0	15.4	402	Black
10098204	8	12.2	14.2	18.4	20.3	663	Black
10098205	12	14.9	16.9	21.2	23.4	865	Black
10098206	16	17.7	19.7	24.6	27.2	1209	Black
10098207	20	19.2	21.2	26.3	29.0	1383	Black
10098208	24	21	23.0	28.0	30.9	1570	Black

## SECTION 1.34MM<sup>2</sup>

Reference	nb pairs	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Sheath colour
10098209	2	8.3	10.3	14.5	15.9	402	Black
10098210	4	9.6	11.6	15.7	17.3	501	Black
10098211	8	12.8	14.8	19.0	17.3	750	Black
10098212	12	15.7	17.7	22.7	25.0	1114	Black
10098213	16	22.3	24.3	29.3	32.3	1651	Black
10098214	20	24.2	26.2	31.3	34.6	1895	Black
10098215	24	23.6	25.6	30.7	33.9	1924	Black

## 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 (pH / 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



Conductor flexibility  
Stranded class 2



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

## SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter  
To be doubled during laying operations



Conductor flexibility  
Stranded class 2



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