



Reference: 10098198
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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

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
EN 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 in this technical or commercial documentation of Lynx^{eo} is indicative only and shall not be binding for any type of purchase or contract. For multiple white cables printed with a pair number on the part of Lynx^{eo}.

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	Black

Dimensional characteristics

Conductor cross-section	0.5 mm ²
Number of pairs	12
Diameter over inner sheath	13 mm
Diameter over armour	15.0 mm
Minimum outer diameter	19.2 mm
Maximum outer diameter	21.2 mm
Approximate weight	709 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 ²)	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