



### CONTACT

Market information  
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- Instrumentation cables 170/300 V
- Individual & Overall Screen (IOS)
- **Oil resistant**

### STANDARDS

**Test** IEC 60331; 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. They maintain circuit integrity when exposed to fire.**

### Design

#### Conductor:

Stranded bare copper class 2

#### Insulation:

Silicone rubber (Sil)

#### Individual screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

Polyester tape

#### Overall screen:

Polyester tape

Tinned copper drain wire

Copper 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 resistant  
IEC 60331



**Marking**



Oil resistance  
Yes



Electro-magnetic  
interference resistance  
Yes



Operating temp.  
20...60 °C



Cross-section Cu IEC  
90 °C

EN 50288-7 SIL/IND-IOA.SCR/PVC 170/300V No. of pairs & cross-section Cu IEC  
60331 IEC 60332-3-22(A) MM YYY Manufacturing number + metric marking

### Standards

EN 50288-7 (Design guide-lines)

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynx<sup>eo</sup> is indicative only and shall not be binding on Lynx<sup>eo</sup> or be treated as constituting a representation on the part of Lynx<sup>eo</sup>.

### CHARACTERISTICS

#### Construction characteristics

Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	Silicone rubber
Individual screen	Tinned copper drain wire + aluminium/polyester tape
Overall screen	Tinned copper drain wire + copper polyester tape
Outer sheath	PVC
Protection	no

#### Electrical characteristics

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

Fire resistant	IEC 60331
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

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

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10134991	2	0.9	2.06	10.8	12.5	138
	5	0.9	2.06	13.6	15.8	244
	10	0.9	2.06	17.2	20.1	403
10134996	20	0.9	2.06	22.3	26.0	696
	30	0.9	2.06	26.5	30.9	996

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

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10134998	2	1.1	2.26	11.4	13.3	153
	5	1.1	2.26	14.5	16.9	273
	10	1.1	2.26	18.5	21.5	460
10135003	20	1.1	2.26	23.9	27.9	789



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



Fire resistant  
IEC 60331



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

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	30	1.1	2.26	28.6	33.4	1145

### SECTION 1.0MM<sup>2</sup>

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10135005	2	1.28	2.44	12.0	14.0	175
	5	1.28	2.44	15.4	17.9	318
	10	1.28	2.44	19.6	22.9	544
10135010	20	1.28	2.44	25.5	29.7	948
	30	1.28	2.44	30.6	35.7	1388

### SECTION 1.5MM<sup>2</sup>

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10135012	2	1.5	2.66	12.7	14.8	207
	5	1.5	2.66	16.4	19.1	391
	10	1.5	2.66	21.1	24.6	687
10135017	20	1.5	2.66	27.5	32.0	1220
	30	1.5	2.66	33.0	38.6	1802

### SECTION 2.5MM<sup>2</sup>

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	2	1.91	3.07	14.1	16.4	268
	5	1.91	3.07	18.3	21.3	503
	10	1.91	3.07	23.6	27.5	899
	20	1.91	3.07	31.1	36.2	1633
	30	1.91	3.07	37.5	43.8	2425

## 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:



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



Fire resistant  
IEC 60331



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

10 x outer diameter  
To be doubled during laying operations

Tinned copper conductors available on request



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



Fire resistant  
IEC 60331



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