



- Instrumentation cables 300 V
- Individual & Overall Screen (IOS)
- **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 consequences of crosstalk. These cables are used in industrial installations such as refineries, chemical plants etc...

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

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 par ASTM D 2863

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

Low halogen: IEC 60754-1 HCL < 6 %

Core identification

Pair: Black/white
For multipair: White core printed with pair number



Conductor flexibility
Stranded class 2



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



Oil resistance
IEC 60754-1



Smoke density
Low



Operating temp.
-20 ... 60 °C



Max. conductor temp. in service
70 °C

Marking

GORSE YYYY RE - 2Y(St)Y - fl PiMF LSLH 300V Nber of pairs & cross-section IEC 60332-3-22(A) + metric marking

Désignation

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynxéo is indicative only and shall not be binding. The drawings and designs constituting a representation on the part of Lynxéo.

RE: Instrumentation cables
2Y: Polyethylene insulation
(St): Collective screen

CONTACT

Market information
industryprojects.business@lynxéogroup.com

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
Outer sheath	PVC

Electrical characteristics

Operating voltage	300 V
-------------------	-------

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 MM²

Reference	nb pairs	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Sheath colour
10098146	2	9.7	10.7	117	Black
10098147	4	10.2	11.3	162	Black
10101845	4	11.2	12.3	166	Blue
10098148	8	13.8	15.2	269	Black
10098149	12	14.6	16.1	351	Black
10098150	16	18.4	20.3	474	Black
10098151	20	19.8	21.8	565	Black
10098152	24	21.2	23.4	658	Black

SECTION 0.75 MM²

Reference	nb pairs	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Sheath colour
10098153	2	9.6	10.6	135	Black
10101846	2	9.6	10.6	135	Blue
10098154	4	11.1	12.2	196	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

Reference	nb pairs	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Sheath colour
10098155	8	15.3	16.9	341	Black
10098156	12	17.9	19.8	474	Black
10101847	12	17.9	19.8	474	Blue
10098157	16	18.2	20.1	568	Black
10098158	20	22.1	24.4	728	Black
10098159	24	21.0	23.2	786	Black

SECTION 1.34 MM²

Reference	nb pairs	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Sheath colour
10098160	2	11.5	12.7	185	Black
10101848	2	11.6	12.8	185	Blue
10098161	4	13.4	14.8	277	Black
10098162	8	16.8	18.5	461	Black
10098163	12	18.7	21.9	609	Black
10098164	16	21.5	23.8	788	Black
10098165	20	27.0	29.7	1088	Black
10098166	24	26.4	29.1	1175	Black

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:



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

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