



CONTACT

Market information
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- Instrumentation cables 300 V
- 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. These cables are used in industrial installations such as refineries, chemical plants etc...

Design

Conductor:

Stranded bare copper (class 2)

Insulation:

Polyethylene (PE)

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

Marking



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

NEXANS 279 YYYY RE - 2Y(St)Y - fl LSLH 300V Nber. of pairs & cross-section IEC 60332-3-22(A) + metric marking

Designation

RE: Instrumentation cable
 2Y: Polyethylene insulation
 (St): Collective screen
 Y: PVC sheath

fl Reduced flame propagation

All drawings, designs, specifications, brochures, manuals, and other documents of weights, size and dimensions contained in the technical or commercial documentation of Lynx^{eo} is indicative only and shall not be binding on Lynx^{eo} or be treated as constituting a representation on the part of Lynx^{eo}.

CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Conductor flexibility	Stranded class 2
Insulation	PE
Overall screen	Tinned copper drain wire + aluminium/polyester tape
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 MM²

Reference	nb pairs	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Sheath colour
10098098	1	5.3	5.9	43	Black
10098103	4	10.6	11.7	133	Black
10098124	8	11.8	13.0	191	Black
10098125	12	15.1	16.7	277	Black
10098126	16	15.4	17.0	321	Black
10098127	20	18.5	20.4	412	Black
10098128	24	19.9	21.9	477	Black

SECTION 0.75 MM²

Reference	nb pairs	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Sheath colour
10101855	1	5.6	6.2	52	Blue
10098129	1	5.6	6.2	54	Black
10201216	2	6.2	6.9	72	Black
10201221	2	6.2	6.9	72	Blue
10098131	4	10.5	11.6	153	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
10098132	8	12.9	14.2	235	Black
10098133	12	15.0	16.6	345	Black
10098134	16	17.2	18.9	417	Black
10098135	20	20.9	23.0	556	Black
10098136	24	19.8	21.8	601	Black

SECTION 1.34 MM²

Reference	nb pairs	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Sheath colour
10101874	1	6.6	7.3	75	Blue
10098138	1	6.6	7.3	77	Black
10201217	2	7.2	7.9	101	Black
10098140	4	12.2	13.5	205	Black
10101857	4	12.2	13.5	205	Blue
10098141	8	15.9	17.5	387	Black
10098142	12	18.7	20.7	538	Black
10098143	16	21.6	23.9	694	Black
10098144	20	25.7	28.4	895	Black
10098145	24	27.8	30.7	940	Black

ELECTRICAL CHARACTERISTICS AT 20°C

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 (pH / ohm)	Test Voltage (core/core) (V)
			Single pair	Up to 4 pairs	Above 4 pairs		
0.5	36.7	5 000	115	95	80	25	2 000
0.75	24.9	5 000	115	95	80	25	2 000
1.34	14.2	5 000	115	95	80	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



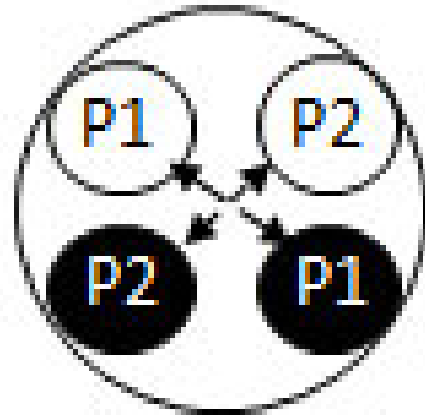
Operating temp.
-20 ... 60 °C



Max. conductor temp. in service
70 °C

CORE IDENTIFICATION FOR 2 PAIR CABLES

2 pairs: black P1 - black P2
white P1 - white P2



SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter
To be doubled during laying operations

2 pair cables are assembled as a quad (black and white cores both printed with pair number)



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