



**Reference:** 10098133  
**EAN 13:** 3427580121258

### CONTACT

Market information  
 industryprojects.business@lynxéogroup.com

- 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

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

### Désignation

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

fl Reduced flame propagation

Low smoke, low halogen (LSLH)

### 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
Sheath colour	Black

#### Dimensional characteristics

Conductor cross-section	0.75 mm <sup>2</sup>
Number of pairs	12
Minimum outer diameter	15.0 mm
Maximum outer diameter	16.6 mm
Approximate weight	345 kg/km

#### 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

### ELECTRICAL CHARACTERISTICS AT 20°C

#### 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 (µH / 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