



### CONTACT

Market information  
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- Instrumentation cables 170/300 V
- With lead cover (LC)
- Overall Screen (OS)
- **Aliphatic and aromatic hydrocarbons resistant**

### STANDARDS

Test IEC 60331; IEC 60332-3-22 Cat.A

### APPLICATIONS

These instrumentation and communication cables are used to **transmit analogue or digital signals in measurement and process control**. They are well adapted to **underground use** in industrial applications, in moist areas, where **hydrocarbon and mechanical protection are needed**. The **lead cover brings an enhanced resistance to aromatics hydrocarbons**. They maintain circuit integrity when exposed to fire.

### Design

#### Conductor:

Stranded bare copper class 2

#### Insulation:

Silicone rubber (Sil)

#### Overall screen:

Polyester tape

Tinned copper drain wire,

Aluminium backed polyester tape

#### Inner sheath:

Low Smoke Zero Halogen (LSZH)

Colour: black

#### Lead sheath

#### Bedding (intermediate sheath):

Polyvinyl chloride (PVC)

Colour: black

#### Armour:

Galvanized steel wires (SWA)

#### Outer sheath:



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



Mechanical  
resistance to  
impacts  
**Good**



Polyvinyl chloride (PVC)  
Colour: black  
Fire resistance  
IEC 60331  
Other colour on request.  
Fire request.  
EN IEC 60332-3-22  
(cat A)

### Core identification

Pair: white - black

Quad: white - black - red - blue (2 pair cables assembled as a quad)

All white core designs with pair number 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>.

### Marking

NEXANS 279 SIL/OA.SCR/LSZH//LC/PVC/SWA/PVC 170/300V Nber of pairs & cross-



Chemical  
resistance  
**Aliphatic and  
aromatic  
hydrocarbons  
resistant**



Electro magnetic  
interference  
resistance  
**Yes**



Operating temp.  
**-20 ... 60 °C**



Max. conductor  
temp. in service  
**90 °C**

## CHARACTERISTICS

### Construction characteristics

Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	Silicone rubber
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Inner sheath	Low smoke, zero halogen thermoplastic compound
Lead Sheath	Yes
Intermediate sheath	PVC
Armour type	Galvanized steel wires
Outer sheath	PVC
Protection	Yes

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	170/300V
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### Mechanical characteristics

Mechanical resistance to impacts	Good
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### Usage characteristics

Fire resistant	IEC 60331
Fire retardant	EN IEC 60332-3-22 (cat A)
Chemical resistance	Aliphatic and aromatic hydrocarbons resistant
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]	Diam. over inner sheath [mm]	Diameter over lead sheath [mm]	Diam. intermediate sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10135199	1	0.9	2.06	6.3	8.1	10.1	11.9	13.5	15.7	595
10135200	2	0.9	2.06	7.2	9	11	12.8	14.4	16.7	665
	5	0.9	2.06	12.5	14.5	16.5	19.0	20.4	23.8	1226
	10	0.9	2.06	16.6	18.8	20.8	23.3	24.0	28.0	1712
10135205	20	0.9	2.06	21.9	24.5	26.5	29.0	29.5	34.4	2526
	30	0.9	2.06	26.3	29.1	31.5	34.7	34.8	40.6	3491



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



Mechanical resistance to impacts  
Good



Fire resistant  
IEC 60331



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



Chemical resistance  
Aliphatic and aromatic hydrocarbons resistant



Electro magnetic interference resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp. in service  
90 °C

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

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diameter over lead sheath [mm]	Diam. intermediate sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10135207	1	1.1	2.26	6.7	8.5	10.5	12.3	13.9	16.2	630
10135208	2	1.1	2.26	7.6	9.4	11.4	13.2	14.9	17.3	714
	5	1.1	2.26	13.5	15.7	17.7	20.2	21.5	25.0	1389
	10	1.1	2.26	18	20.4	22.4	24.9	25.5	29.7	1968
10135213	20	1.1	2.26	23.7	26.3	28.7	31.9	32.1	37.5	2992
	30	1.1	2.26	29	32	34.4	37.6	37.6	43.9	4057

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

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diameter over lead sheath [mm]	Diam. intermediate sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10135215	1	1.28	2.44	7.1	8.9	10.9	12.7	14.3	16.6	661
10135216	2	1.28	2.44	8	9.8	11.8	13.6	15.3	17.8	753
	5	1.28	2.44	14.4	16.6	18.6	21.1	22.4	26.0	1498
	10	1.28	2.44	19.2	21.6	23.6	26.1	26.7	31.2	2122
10135221	20	1.28	2.44	25.4	28.2	30.6	33.8	34.0	39.7	3409
	30	1.28	2.44	31	34	36.4	39.6	39.4	46.0	4420

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

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diameter over lead sheath [mm]	Diam. intermediate sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10135223	1	1.5	2.66	7.5	9.3	11.3	13.1	14.8	17.2	708
10135224	2	1.5	2.66	8.6	10.4	12.4	14.2	15.8	18.4	815
	5	1.5	2.66	15.5	17.7	19.7	22.2	23.6	27.4	1661
	10	1.5	2.66	20.9	23.5	25.5	28.0	28.4	33.2	2486
10135229	20	1.5	2.66	28	31	33.4	36.6	36.7	42.8	4088
	30	1.5	2.66	33.6	36.8	39.6	43.6	43.2	50.4	5602



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



Mechanical resistance to impacts  
Good



Fire resistant  
IEC 60331



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



Chemical resistance  
Aliphatic and aromatic hydrocarbons resistant



Electro magnetic interference resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp. in service  
90 °C

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

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diameter over lead sheath [mm]	Diam. intermediate sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	1	1.91	3.07	8.3	10.1	12.1	13.9	15.5	18.1	784
	2	1.91	3.07	9.5	11.5	13.5	15.3	16.8	19.6	964
	5	1.91	3.07	17.6	20	22	24.5	25.7	29.8	1996
	10	1.91	3.07	23.6	26.2	28.6	31.8	32.0	37.4	3169
	20	1.91	3.07	31.8	35	37.4	40.6	40.5	47.2	4996
	30	1.91	3.07	38.7	42.3	45.1	49.1	48.5	56.6	7190

## SELLING AND DELIVERY INFORMATION

Other fire performances IEC 60332-1 or IEC 60332-3-24(C) on request.

Minimum bending radius:

10 x outer diameter  
To be doubled during laying operations

Tinned copper conductors available on request



Rated Voltage U<sub>0</sub>/U  
(Um)  
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Good



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(cat A)



Chemical resistance  
Aliphatic and aromatic hydrocarbons resistant



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Yes



Operating temp.  
-20 ... 60 °C



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90 °C