



CONTACT

Market information
industryprojects.business@lynxeogroup.com

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

STANDARDS

Test 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**.

Design

Conductor:

Stranded bare copper class 2

Insulation:

Cross-linked polyethylene (XLPE)

Overall screen:

Polyester tape

Tinned copper drain wire,

Aluminium backed polyester tape

Inner sheath:

Polyvinyl chloride (PVC)

Colour: black

Lead sheath:

Bedding (intermediate sheath):

Polyvinyl chloride (PVC)

Colour: black

Armour:

Galvanized steel wires (SWA)

Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request
EN IEC 60332-3-22 (cat A)

Core identification
Aliphatic and aromatic hydrocarbons resistant

Pair: white - black

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

All Whitescore designs with pair number and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynxéo is indicative only and shall not be binding on Lynxéo or be treated as constituting a representation on the part of Lynxéo.

Marking

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



Rated Voltage U₀/U
(Um)
170/300V



Mechanical resistance
to impacts
Good



Fire resistance
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

CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	XLPE (Cross-linked Polyethylene)
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Inner sheath	PVC
Lead Sheath	Yes
Intermediate sheath	PVC
Armour type	Galvanized steel wires
Outer sheath	PVC
Protection	Yes

Electrical characteristics

Rated Voltage U ₀ /U (Um)	170/300V
--------------------------------------	----------

Mechanical characteristics

Mechanical resistance to impacts	Good
----------------------------------	------

Usage characteristics

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 0.5MM²

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]
10134899	1	0.9	1.38	5	6.6	8.6	10.4	12.8	14.1	470
10134900	2	0.9	1.38	5	6.6	8.6	10.4	12.8	14.1	475
10186672	5	0.9	1.38	9.1	10.9	12.9	14.7	17.2	18.9	790
10186685	10	0.9	1.38	11.8	13.8	15.8	17.6	20.2	22.3	1080
10134905	20	0.9	1.38	15.4	17.6	19.6	22.1	24.7	27.3	1643
	30	0.9	1.38	18.3	20.7	22.7	25.2	27.7	30.6	2063



Rated Voltage U₀/U (Um)
170/300V



Mechanical resistance to impacts
Good



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 0.75MM²

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]
10134907	1	1.1	1.58	5	6.6	8.6	10.4	12.8	14.1	474
10134908	2	1.1	1.58	6	7.8	9.8	11.6	14.0	15.5	589
10186691	5	1.1	1.58	10.1	12.1	14.1	15.9	18.3	20.2	933
10186704	10	1.1	1.58	13.2	15.4	17.4	19.9	22.4	24.7	1428
10134913	20	1.1	1.58	17.2	19.6	21.6	24.1	26.7	29.4	1981
	30	1.1	1.58	20.7	23.1	25.1	27.6	30.3	33.4	2465

SECTION 1.0MM²

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]
10134915	1	1.28	1.76	5	6.6	8.6	10.4	12.8	14.1	476
10134916	2	1.28	1.76	6.5	8.3	10.3	12.1	14.5	15.9	629
10186710	5	1.28	1.76	11	13	15	16.8	19.2	21.2	1017
10186713	10	1.28	1.76	14.5	16.7	18.7	21.2	23.7	26.1	1571
10134921	20	1.28	1.76	19	21.4	23.4	25.9	28.4	31.4	2223
	30	1.28	1.76	22.8	25.4	27.8	30.3	33.1	36.5	3113

SECTION 1.5MM²

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]
10134923	1	1.5	2.16	6.5	8.3	10.3	12.1	14.5	15.9	627
10134924	2	1.5	2.16	7.4	9.2	11.2	13.0	15.5	17.1	724
10186718	5	1.5	2.16	13	15.2	17.2	19.7	22.2	24.5	1407
10186721	10	1.5	2.16	17.3	19.7	21.7	24.2	26.8	29.5	2013
	20	1.5	2.16	22.7	25.3	27.7	30.9	33.7	37.1	3120
	30	1.5	2.16	27.7	30.5	32.9	36.1	38.9	42.9	4115



Rated Voltage U₀/U
(Um)
170/300V



Mechanical resistance
to impacts
Good



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 2.5MM²

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]
10186726	1	1.91	2.57	7.3	9.1	11.1	12.9	15.4	17.0	712
10186727	2	1.91	2.57	8.4	10.2	12.2	14.0	16.5	18.2	830
10186730	5	1.91	2.57	15.1	17.3	19.3	21.8	24.4	27.0	1678
10186734	10	1.91	2.57	20.1	22.5	24.5	27.0	29.7	32.7	2428
10186740	20	1.91	2.57	26.6	29.4	31.8	35.0	37.8	41.7	3963
	30	1.91	2.57	32.5	35.7	38.5	42.5	45.5	50.2	5747

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 U₀/U
(Um)
170/300V



Mechanical resistance to impacts
Good



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