



CONTACT

Market information
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- Instrumentation cables 300/500 V
- XLPE insulation (Part 1)
- Unarmoured (Type 1)
- Individual & Overall Screen (IOS)
- Oil resistant

STANDARDS

Test IEC 60332 - 3 - 22 Cat.A

APPLICATIONS

These instrumentation and communication cable are used to transmit analogue or digital signals in measurement and process control where chemicals may be present. The individual screening of each pair limits the consequence of crosstalk..

Design

Conductor:

Solid, stranded or flexible bare copper

Insulation:

Cross - linked polyethylene (XLPE)

Individual screen:

Binder tape

Tinned copper drain wire,

Aluminium/polyester tape

Binder tape

Overall screen:

Binder tape

Tinned copper drain wire,

Aluminium/polyester tape

Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request.

Core identification

Pair: black - white

White core printed with pair number

On request: according to PAS 5308 part 1



U_o/U_m (Um)
300/500 V



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



Oil resistance
Yes



Electromagnetic
interference resistance
Yes



Operating temp.
-20 ... 60 ° C



Maximum conductor temp.
service
90 ° C

Marking

NEXANS 279 XLPE/IND. + OA/SCR/PVC 300/500V Nber of pairs & cross - section
Cu IEC 60332 - 3 - 22(A) MM.YYYY Manufacturing number + metric marking

Standards

PAS 5308 Part 1/type 1 (Design guide - lines)

BS EN 60228 - 2005

BS EN 50290 - 2 - 29

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 on Lynxéo or be treated as constituting a representation on the part of Lynxéo.

CHARACTERISTICS

Individual screen	XLPE(가)
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Protection	no
U _o /U (U _m)	300/500 V
Fire retardant	EN IEC 60332 - 3 - 22 (cat A)
Oil resistance	Yes
Electro magnetic interference resistance	Yes
操作度范	- 20 ... 60 ° C
Max. conductor temperature in service	90 ° C
Standard	PAS

CLASS 1 0.5 MM²

nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
2	0.8	1.8	10.2	11.5	121
5	0.8	1.8	13.0	14.4	210
10	0.8	1.8	16.8	18.5	390
20	0.8	1.8	21.6	23.9	684
30	0.8	1.8	25.6	28.2	985

CLASS 5 0.5 MM²

nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
2	0.9	2.1	11.3	12.6	133
5	0.9	2.1	14.5	16.1	232
10	0.9	2.1	18.8	20.8	462
20	0.9	2.1	24.3	26.9	812
30	0.9	2.1	29.0	32.0	1174



U_o/U (U_m)
300/500 V



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



Oil resistance
Yes



Electro magnetic
interference resistance
Yes



Operating temp.
- 20 ... 60 ° C



Max. conductor temp. in
service
90 ° C

CLASS 2 0.75 MM²

nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
2	1.1	2.3	12.0	13.4	154
5	1.1	2.3	15.5	17.1	276
10	1.1	2.3	20.2	22.3	569
20	1.1	2.3	26.2	28.9	1013
30	1.1	2.3	31.2	34.5	1473

CLASS 1 1 MM²

nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
2	1.14	2.34	12.2	13.6	164
5	1.14	2.34	15.7	17.3	298
10	1.14	2.34	20.5	22.6	612
20	1.14	2.34	26.6	29.3	1098
30	1.14	2.34	31.8	35.1	1606

CLASS 2 1.5 MM²

nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
2	1.5	2.7	13.5	15.0	197
5	1.5	2.7	17.5	19.3	377
10	1.5	2.7	23.0	25.4	786
20	1.5	2.7	29.9	33.0	1415

SELLING AND DELIVERY INFORMATION

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

Minimum bending radius:

10 x outer diameter
To be doubled during laying operations

Tinned copper conductors available on request



Uo/U (Um)
300/500 V



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



Oil resistance
Yes



Electro magnetic
interference resistance
Yes



Operating temp.
-20 ... 60 ° C



Max. conductor temp. in
service
90 ° C