EN 50288 - 7 Hypron® XLPE Insulation OS Unarmoured Fire Retardant

- Instrumentation cables 170/300 V
- Overall Screen (OS)
- Lead free
- Aliphatic and aromatic hydrocarbons 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 in moist areas and where aliphatic and aromatic hydrocarbons may be present. Hypron® offers an alternative to conventional lead covered cable and is an environmental friendly solution.

Design

Conductor:

Stranded bare copper class 2

Insulation:

Cross - linked polyethylene (XLPE)

Binder tape

Bedding

Inner sheath:

Polyvinyl chloride (PVC).

Colour: black.

Overall screen/sealing barrier:

Tinned copper drain wire,

Aluminium backed polyethylene tape

Bedding:

High density polyethylene (PE)

Colour: black

Special sheath (intermediate sheath):

Polyamide

Outer sheath:

Polyvinyl chloride (PVC).

Colour: black.

Other colour on request.

Lead free
예


정격전압 Uo/U (Um)
170/300V


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

Core identification

Pair: white - black
Quad: white - blue - red - blue (2 pair cables assembled as a quad)
White core printed with pair number

Marking

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in this publication are approximate only and shall not be binding on Lynxeo or be treated as constituting a representation on the part of Lynxeo.

NEXANS 279 XLPE/PVC/AL/HDPE/NC/PVC 170/300V Nber of pairs & cross - section Conf IEC 60332 - 3 - 22 (A) MM YYYY Manufacturing number + metric marking

Standards

EN 50288 - 7 (Design guide, lines)

CONTACT

Market information
industryprojects.business@lynxeogroup.com

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CHARACTERISTICS

구조적 특성	
도체 재료	베어 구리 와이어
도체 타입	2등급 (연선)
절연	XLPE(가교 폴리에틸렌)
내피	폴리염화비닐
Overall screen	Tinned copper drain wire + aluminium/polyethylene tape
Material of bedding	HDPE
Intermediate sheath	Polyamide
피복	폴리염화비닐
Lead free	예
Protection	no
전기적 특성	
정격전압 Uo/U (Um)	170/300V
사용 특성	
Fire retardant	EN IEC 60332 - 3 - 22 (cat A)
Chemical resistance	Aliphatic and aromatic hydrocarbons resistant
Electro magnetic interference resistance	Yes
操作度范	- 20 ... 60 ° C
Max. conductor temperature in service	90 ° C
Standard	EN

SECTION 0.5MM ²

nb pairs	도체지름 [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
1	0.9	1.38	6	9.2	14.8	16.3	277
2	0.9	1.38	6	9.2	14.8	16.3	282
5	0.9	1.38	9.5	12.8	18.2	20.1	361
10	0.9	1.38	12.2	15.7	21.0	23.2	481
20	0.9	1.38	15.6	19.3	24.5	27.1	666
30	0.9	1.38	18.6	22.3	27.5	30.3	846

SECTION 0.75MM ²

nb pairs	도체지름 [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
1	1.1	1.58	6	9.2	14.8	16.3	282
2	1.1	1.58	6.3	9.5	15.1	16.6	302

Lead free
예


정격전압 Uo/U (Um)
170/300V


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

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nb pairs	도체지름 [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
5	1.1	1.58	10.5	13.8	19.2	21.2	417
10	1.1	1.58	13.5	17	22.3	24.6	574
20	1.1	1.58	17.5	21.2	26.4	29.1	831
30	1.1	1.58	20.9	24.6	29.7	32.7	1085

SECTION 1.0MM ²

nb pairs	도체지름 [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
1	1.28	1.76	6	9.2	14.8	16.3	284
2	1.28	1.76	6.8	10	15.5	17.1	324
5	1.28	1.76	11.4	14.7	20.1	22.1	459
10	1.28	1.76	14.9	18.4	23.7	26.1	650
20	1.28	1.76	19.3	23	28.1	31.0	958
30	1.28	1.76	23	26.7	31.7	35.0	1263

SECTION 1.5MM ²

nb pairs	도체지름 [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
1	1.5	2.16	6.8	10	15.5	17.1	322
2	1.5	2.16	7.7	10.9	16.4	18.1	374
5	1.5	2.16	13.3	16.6	21.9	24.2	562
10	1.5	2.16	17.7	21.2	26.4	29.1	844
20	1.5	2.16	23	26.7	31.7	35.0	1294
30	1.5	2.16	27.6	31.3	36.2	39.9	1747

SECTION 2.5MM ²

nb pairs	도체지름 [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
1	1.91	2.57	7.6	10.8	16.3	18.0	362
2	1.91	2.57	8.7	15.1	17.3	19.1	437
5	1.91	2.57	15.4	18.7	24.0	26.4	698
10	1.91	2.57	20.4	23.9	29.0	32.0	1075
20	1.91	2.57	26.9	30.6	35.5	39.2	1716
30	1.91	2.57	32.4	36.1	40.8	45.0	2366

Lead free
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정격전압 Uo/U (Um)
170/300V


Fire retardant
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(cat A)


Chemical resistance
Aliphatic and
aromatic
hydrocarbons
resistant


Electro magnetic
interference
resistance
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Operating temp.
- 20 ... 60 ° C


Max.conductor
temp.in service
90 ° C

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SELLING AND DELIVERY INFORMATION

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

Minimum bending radius:

15 x outer diameter
To be doubled during laying operations

Tinned copper conductors available on request

Lead free
예


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