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

- Instrumentation cables 170/300 V
- Individual & Overall Screen (IOS)
- 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. The individual screening of each pair limits the consequence of crosstalk. 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)

Individual screen:

Binder tape

Tinned copper drain wire

Aluminium backed polyester tape

Binder tape

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

Core identification

Pair: white - black

CONTACT

Market information
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CHARACTERISTICS

구조적 특성	
도체 재료	베어 구리 와이어
도체 타입	2등급 (연선)
절연	XLPE(가교 폴리에틸렌)
Individual screen	Tinned copper drain wire + aluminium/polyester tape
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]
2	0.9	1.38	7.9	11.3	16.8	18.5	306
5	0.9	1.38	10.2	13.5	18.9	20.9	411
10	0.9	1.38	13.1	16.6	21.9	24.2	571
20	0.9	1.38	16.9	20.6	25.8	28.5	836
30	0.9	1.38	20.1	23.8	28.9	31.9	1092

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]	무게(근사치) [kg/km]	Max. outer diam. [mm]
2	1.1	1.58	8.6	12	17.5	336	19.3
5	1.1	1.58	11.2	14.5	19.9	469	21.9

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

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

nb pairs	도체지름 [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. intermediate sheath [mm]	Min. outer diam. [mm]	무게(근사치) [kg/km]	Max. outer diam. [mm]
10	1.1	1.58	14.6	18.1	23.4	671	25.8
20	1.1	1.58	18.8	22.5	27.6	1006	30.5
30	1.1	1.58	22.5	26.2	31.2	1332	34.5

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]
2	1.28	1.76	9.3	12.7	18.1	20.0	364
5	1.28	1.76	12.1	15.4	20.8	22.9	514
10	1.28	1.76	15.7	19.2	24.4	27.0	749
20	1.28	1.76	20.5	24.2	29.3	32.3	1147
30	1.28	1.76	24.6	28.3	33.3	36.7	1540

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]
2	1.5	2.16	10.7	14.1	19.5	21.5	421
5	1.5	2.16	14	17.3	22.6	24.9	622
10	1.5	2.16	18.5	22	27.2	30.0	943
20	1.5	2.16	24.3	28	33.0	36.4	1484
30	1.5	2.16	29.2	32.9	37.7	41.6	2025

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]
2	1.91	2.57	12.2	15.6	21.0	23.1	505
5	1.91	2.57	16.1	19.4	24.6	27.2	761
10	1.91	2.57	21.5	25	30.1	33.2	1193
20	1.91	2.57	28.2	31.9	36.8	40.6	1927
30	1.91	2.57	34	37.7	42.4	46.8	2679

SELLING AND DELIVERY INFORMATION

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

Minimum bending radius:

15 x outer diameter
To be doubled during laying operations

Tinned copper conductors available 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