EN 50288 - 7 XLPE Insulation IOS Armoured Fire Retardant

- Instrumentation cables 170/300 V
- Individual & Overall Screen (IOS)
- Oil resistant

STANDARDS

Test IEC 60332 - 3 - 22 Cat.A

APPLICATIONS

These Instrumentation and communication are used to transmit analogue or digital signals in measurement and process control. They are well adapted toundergrounduse in industrial applications where chemical and mechanical protections are needed (refinery areas, chemical plant...). The individual screening of each pair limits the consequence of crosstalk.

Design

Conductor:

Stranded bare copper class 2

Insulation:

Cross - linked polyethylene (XLPE)

Individual screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

Polyester tape

Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

Inner sheath:

Polyvinyl chloride (PVC)

Armour:

Galvanized steel wires (SWA)

Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request

정격전압 Uo/U (Um) 170/300V

Mechanical resistance to impacts Good

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

Core identification

Pair: white - black

White cable printed with pair number.

Marking

NEXANS 279 XLPE/IND.+OA.SCR/PVC/SWA/PVC 170/300V Nber of pairs & cross - section Cu IEC 60332 - 3 - 22(A) MM YYYY Manufacturing number + metric marking

Standards

EN 50288 - 7 (design guide - lines)

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
Overall screen	Tinned copper drain wire + aluminium/polyester tape
내피	폴리염화비닐
Armour type	아연 도금 스틸 와이어
피복	폴리염화비닐
Protection	Yes
전기적 특성	
정격전압 Uo/U (Um)	170/300V
기계적 특성	
Mechanical resistance to impacts	Good
사용 특성	
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	EN

SECTION 0.5MM ²

nb pairs	도체지름 [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
2	0.9	1.38	7.6	9.4	11.7	12.9	261
5	0.9	1.38	9.8	11.6	13.9	15.4	380
10	0.9	1.38	12.7	14.5	16.8	18.5	547
20	0.9	1.38	16.7	18.5	20.9	23.0	836
30	0.9	1.38	19.8	22.3	24.7	27.3	1261

SECTION 0.75MM ²

nb pairs	도체지름 [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
2	1.1	1.58	8.3	10.1	12.4	13.6	291
5	1.1	1.58	10.8	12.6	14.9	16.5	444
10	1.1	1.58	14.2	16.0	18.4	20.3	664


정격전압 Uo/U (Um)
170/300V


Mechanical resistance to impacts
Good


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

EN 50288 - 7 XLPE Insulation IOS Armoured Fire Retardant

nb pairs	도체지름 [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
20	1.1	1.58	18.5	21.0	23.5	25.9	1147
30	1.1	1.58	22.3	24.8	27.4	30.2	1551

SECTION 1MM ²

nb pairs	도체지름 [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
2	1.28	1.76	9	10.8	13.2	14.5	323
5	1.28	1.76	11.7	13.5	15.8	17.4	493
10	1.28	1.76	15.4	17.2	19.6	21.6	750
20	1.28	1.76	20.3	22.8	25.2	27.8	1322
30	1.28	1.76	24.4	26.9	29.4	32.4	1779

SECTION 1.5MM ²

nb pairs	도체지름 [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
2	1.5	2.16	10.4	12.2	14.6	16.1	388
5	1.5	2.16	13.7	15.5	17.9	19.8	623
10	1.5	2.16	18.2	20.7	23.2	25.6	1099
20	1.5	2.16	24	26.5	29.0	32.0	1705
30	1.5	2.16	29.3	31.8	34.5	38.1	2590

SECTION 2.5MM ²

nb pairs	도체지름 [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
2	1.91	2.57	11.9	13.7	16.0	17.7	484
5	1.91	2.57	15.8	17.6	20.0	22.0	771
10	1.91	2.57	21.1	23.6	26.2	28.9	1391
20	1.91	2.57	28.3	30.8	33.6	37.0	2272
30	1.91	2.57	34.1	37.3	40.1	44.2	3358

SELLING AND DELIVERY INFORMATION

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


정격전압 Uo/U (Um)
170/300V


Mechanical resistance to impacts
Good


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

Minimum bending radius:

10 x outer diameter
To be doubled during laying operations

Tinned copper conductors available on request


정격전압 Uo/U (Um)
170/300V


Mechanical resistance to impacts
Good


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