EN 50288 - 7 Silicone Insulation IOS Armoured Fire resistant

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

STANDARDS

Test IEC 60331; 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. They maintain circuit integrity when exposed to fire.

Design

Conductor:

Stranded bare copper class 2

Insulation:

Silicone rubber (Sil)

Individual screen:

Polyester tape

Tinned copper drain wire

Aluminium/polyester tape

Polyester tape

Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium/polyester tape

Inner sheath:

Low Smoke Zero Halogen (LSZH)

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 resistant
IEC 60331


Fire retardant
EN IEC
(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 cored numbered with pair number

Marking

NEXANS 279 SIL/IND.+OA.SCR/LSZH/SWA/PVC 170/300V Nber of pairs & cross - section Cu IEC 60331 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	실리콘 수지 고무
Individual screen	Tinned copper drain wire + aluminium/polyester tape
Overall screen	Tinned copper drain wire + aluminium/polyester tape
내피	Low smoke, zero halogen thermoplastic compound
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 resistant	IEC 60331
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

Reference	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]
10135111	2	0.9	2.06	10	11.8	13.4	15.6	348
	5	0.9	2.06	13.2	15.0	16.6	19.3	524
	10	0.9	2.06	17.5	19.3	20.3	23.6	779
10135116	20	0.9	2.06	23.2	25.7	26.2	30.6	1363
	30	0.9	2.06	28.2	30.7	30.9	36.0	1840

SECTION 0.75MM ²

Reference	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]
10135118	2	1.1	2.26	10.7	12.5	14.1	16.4	381
	5	1.1	2.26	14.2	16.0	17.5	20.3	577


정격전압 Uo/U (Um)
170/300V


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EN IEC
60332 - 3 - 22 (cat
A)


Oil resistance
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Yes


Operating temp.
- 20 ... 60 ° C


Max.conductor temp.in service
90 ° C

EN 50288 - 7 Silicone Insulation IOS Armoured Fire resistant

Reference	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]
	10	1.1	2.26	18.9	21.4	22.1	25.8	1005
10135123	20	1.1	2.26	24.8	27.3	27.8	32.5	1573
	30	1.1	2.26	30.6	33.8	33.8	39.5	2290

SECTION 1.0MM ²

Reference	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]
10135125	2	1.28	2.44	11.3	13.1	14.6	17.0	413
	5	1.28	2.44	15.1	16.9	18.3	21.3	637
	10	1.28	2.44	20.2	22.7	23.3	27.2	1123
10135130	20	1.28	2.44	26.5	29.0	29.3	34.2	1768
	30	1.28	2.44	32.6	35.8	35.6	41.6	2597

SECTION 1.5MM ²

Reference	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]
10135132	2	1.5	2.66	12.1	13.9	15.4	17.9	455
	5	1.5	2.66	16.2	18.0	19.3	22.5	734
	10	1.5	2.66	21.8	24.3	24.9	29.1	1322
10135137	20	1.5	2.66	29.3	32.5	32.7	38.1	2329
	30	1.5	2.66	35.1	38.3	38.1	44.4	3099

SECTION 2.5MM ²

Reference	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	3.07	13.7	15.5	17.0	19.8	560
	5	1.91	3.07	18.3	20.8	22.1	25.7	1027
	10	1.91	3.07	24.6	27.1	27.6	32.2	1622
	20	1.91	3.07	33.1	36.3	36.3	42.3	2883
	30	1.91	3.07	40.3	43.5	43.1	50.3	3953


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60332 - 3 - 22 (cat A)


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


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90 ° C

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


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