



- 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 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. They maintain circuit integrity when exposed to fire.

### CONTACT

Market information  
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### Design

#### Conductor:

Stranded bare copper class 2

#### Insulation:

Silicone rubber (Sil)

#### Individual screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

Polyester tape

#### Overall screen:

Polyester tape

Tinned copper drain wire

Copper backed polyester tape

#### Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request.

### Core identification

Pair: white - black

White core printed with pair number

### Marking

NEXANS 279 SIL/IND. + OA.SCR/PVC 170/300V Nber of pairs & cross - section Cu  
IEC 60331 IEC 60332 - 3 - 22(A) MM YYYY Manufacturing number + metric marking



Uo/U (Um)  
170/300V



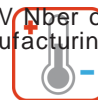
Fire resistant  
IEC 60331



Oil resistance  
Yes



Electro magnetic  
interference  
resistance  
Yes



Operating temp.  
- 20 ... 60 ° C



Max.conductor  
temp.in service  
90 ° C

### Standards

Fire retardant  
EN IEC 60332 - 3 - 22  
EN 50288 - 7 (Design guide - line 5)

## CHARACTERISTICS

2 ( )

Individual screen	Tinned copper drain wire + aluminium/polyester tape
Overall screen	Tinned copper drain wire + copper polyester tape
Protection	no
U <sub>0</sub> /U (Um)	170/300V
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<sup>2</sup>

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	( [kg/km] )
10134991	2	0.9	2.06	10.8	12.5	138
	5	0.9	2.06	13.6	15.8	244
	10	0.9	2.06	17.2	20.1	403
10134996	20	0.9	2.06	22.3	26.0	696
	30	0.9	2.06	26.5	30.9	996

## SECTION 0.75MM<sup>2</sup>

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	( [kg/km] )
10134998	2	1.1	2.26	11.4	13.3	153
	5	1.1	2.26	14.5	16.9	273
	10	1.1	2.26	18.5	21.5	460
10135003	20	1.1	2.26	23.9	27.9	789
	30	1.1	2.26	28.6	33.4	1145



U<sub>0</sub>/U (Um)  
170/300V



Fire resistant  
IEC 60331



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

## SECTION 1.0MM<sup>2</sup>

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	( [kg/km] )
10135005	2	1.28	2.44	12.0	14.0	175
	5	1.28	2.44	15.4	17.9	318
	10	1.28	2.44	19.6	22.9	544
10135010	20	1.28	2.44	25.5	29.7	948
	30	1.28	2.44	30.6	35.7	1388

## SECTION 1.5MM<sup>2</sup>

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	( [kg/km] )
10135012	2	1.5	2.66	12.7	14.8	207
	5	1.5	2.66	16.4	19.1	391
	10	1.5	2.66	21.1	24.6	687
10135017	20	1.5	2.66	27.5	32.0	1220
	30	1.5	2.66	33.0	38.6	1802

## SECTION 2.5MM<sup>2</sup>

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	( [kg/km] )
	2	1.91	3.07	14.1	16.4	268
	5	1.91	3.07	18.3	21.3	503
	10	1.91	3.07	23.6	27.5	899
	20	1.91	3.07	31.1	36.2	1633
	30	1.91	3.07	37.5	43.8	2425

## 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



U<sub>o</sub>/U<sub>i</sub> (Um)  
170/300V



Fire resistant  
IEC 60331



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