



- Instrumentation cables 170/300 V
- Overall Screen (OS)
- 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 .They are well adapted to underground use in industrial application where chemical and mechanical protections are needed (refinery areas, chemical plant...). They maintain circuit integrity when exposed to fire.

### Design

#### Conductor:

Stranded bare copper class 2

#### Insulation:

Silicone rubber (Sil)

#### Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

#### Bedding (inner sheath):

Low Smoke Zero Halogen (LSZH)

Colour: black

#### Armour:

Galvanized steel wires (SWA)

#### Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request.

### Core identification

Pair: white - black

Quad: white - black - red - blue (2 pair cables assembled as a quad)

White core printed with pair number

### CONTACT

Market information  
industryprojects.business@lyn  
xeogroup.com



Uo/U  
(Um)  
170/300V



Mechanical  
resistance to  
impacts  
Good



Fire resistant  
IEC 60331



Fire retardant  
EN IEC  
60332 - 3 - 22 (cat



Oil resistance  
Yes



Electro magnetic  
interference  
resistance  
Yes



Operating temp.  
- 20 ... 60 ° C



Max. conductor  
temp.in service  
90 ° C

### Marking

NEXANS 279 SIL/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

### Standards

EN 50288 - 7 (Design guide - lines)

### CHARACTERISTICS

	2	( )
Overall screen	Tinned copper drain wire + aluminium/polyester tape Low smoke, zero halogen thermoplastic compound	
Armour type		
Protection	Yes	
Uo/U (Um)	170/300V	
Mechanical resistance to impacts	Good	
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]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	( [kg/km] )
10135079	1	0.9	2.06	6.2	8.0	9.8	11.4	222
10135080	2	0.9	2.06	7	8.8	10.5	12.2	261
	5	0.9	2.06	12.5	14.3	15.9	18.5	468
	10	0.9	2.06	16.6	18.4	19.4	22.7	683
10135085	20	0.9	2.06	21.9	24.4	25.0	29.2	1178
	30	0.9	2.06	26.3	28.8	29.2	34.0	1540

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

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	( [kg/km] )
10135087	1	1.1	2.26	6.6	8.4	10.1	11.8	237
10135088	2	1.1	2.26	7.5	9.3	11.1	13.0	286



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Max. conductor  
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Reference	nb pairs	[mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	( [kg/km] )
10135093	5	1.1	2.26	13.5	15.3	16.8	19.6	519
	10	1.1	2.26	18	20.5	21.3	24.9	895
	20	1.1	2.26	23.5	26.0	26.6	31.1	1368
	30	1.1	2.26	29	32.2	32.4	37.8	2010

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

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	( [kg/km] )
10135095	1	1.28	2.44	7	8.8	10.5	12.2	254
10135096	2	1.28	2.44	7.9	9.7	11.5	13.4	315
	5	1.28	2.44	14.4	16.2	17.7	20.5	575
	10	1.28	2.44	19.2	21.7	22.4	26.2	1002
10135101	20	1.28	2.44	25.2	27.7	28.2	32.9	1552
	30	1.28	2.44	31	34.2	34.2	39.9	2287

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

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	( [kg/km] )
10135103	1	1.5	2.66	7.4	9.2	11.0	12.8	288
10135104	2	1.5	2.66	8.5	10.3	12.0	14.0	351
	5	1.5	2.66	15.5	17.3	18.7	21.7	670
	10	1.5	2.66	20.9	23.4	24.1	28.1	1211
10135109	20	1.5	2.66	28	31.2	31.5	36.8	2101
	30	1.5	2.66	33.6	36.8	36.7	42.8	2800

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

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	( [kg/km] )
	1	1.91	3.07	8.3	10.1	11.9	13.8	337
	2	1.91	3.07	9.5	11.3	13.0	15.1	424
	5	1.91	3.07	17.6	20.1	21.4	24.9	964
	10	1.91	3.07	23.6	26.1	26.7	31.2	1510
	20	1.91	3.07	31.8	35.0	35.1	41.0	2672
	30	1.91	3.07	38.7	41.9	41.7	48.6	3678



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### 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:

15 x outer diameter  
To be doubled during laying operations

Tinned copper conductors available on request



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