



- 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 where chemicals may be present. 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,

Copper backed polyester tape

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

Marking

NEXANS 279 SIL/OA.SCR/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)



Uo/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

CHARACTERISTICS

2 ()

Overall screen	Tinned copper drain wire + copper polyester tape
Protection	no
U ₀ /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 0.5MM²

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	() [kg/km]
10134959	1	0.9	2.06	6.2	7.2	63
10134960	2	0.9	2.06	7.0	8.1	84
	5	0.9	2.06	13.0	15.1	200
	10	0.9	2.06	16.4	19.1	326
10134965	20	0.9	2.06	21.2	24.7	541
	30	0.9	2.06	25.1	29.3	768

SECTION 0.75MM²

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	() [kg/km]
10134967	1	1.1	2.26	6.6	7.7	73
10134968	2	1.1	2.26	7.4	8.6	100
	5	1.1	2.26	13.9	16.2	233
	10	1.1	2.26	17.6	20.6	380
10134973	20	1.1	2.26	22.8	26.6	637
	30	1.1	2.26	27.2	31.7	916



U₀/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 1.0MM²

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
10134975	1	1.28	2.44	6.9	8.0	82
10134976	2	1.28	2.44	7.8	9.1	112
	5	1.28	2.44	14.7	17.1	271
	10	1.28	2.44	18.7	21.8	456
10134981	20	1.28	2.44	24.3	28.4	776
	30	1.28	2.44	29.2	34.0	1131

SECTION 1.5MM²

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
10134983	1	1.5	2.66	7.3	8.5	98
10134984	2	1.5	2.66	8.3	9.6	141
	5	1.5	2.66	15.7	18.3	345
	10	1.5	2.66	20.3	23.6	599
10134989	20	1.5	2.66	26.3	30.7	1047
	30	1.5	2.66	31.7	37.0	1545

SECTION 2.5MM²

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
	1	1.91	3.07	8.1	9.4	126
	2	1.91	3.07	9.4	10.9	191
	5	1.91	3.07	17.7	20.5	461
	10	1.91	3.07	22.7	26.5	820
	20	1.91	3.07	29.9	34.9	1480
	30	1.91	3.07	36.1	42.1	2198

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



Uo/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