



- 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**

CONTACT

Market information
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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)



Rated Voltage 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

CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	Silicone rubber
Overall screen	Tinned copper drain wire + copper polyester tape
Outer sheath	PVC
Protection	no

Electrical characteristics

Rated Voltage U ₀ /U (Um)	170/300V
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Usage characteristics

Fire resistant	IEC 60331
Fire retardant	EN IEC 60332-3-22 (cat A)
Oil resistance	Yes
Electro magnetic interference resistance	Yes
Operating temperature, range	-20 ... 60 °C
Max. conductor temperature in service	90 °C
Standard	EN

SECTION 0.5MM²

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [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	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [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



Rated Voltage 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

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10134973	20	1.1	2.26	22.8	26.6	637
	30	1.1	2.26	27.2	31.7	916

SECTION 1.0MM²

Reference	nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [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	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [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	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [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



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(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

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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Oil resistance
Yes



Electro magnetic
interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp.in
service
90 °C