



Reference: 10098125
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CONTACT

Market information
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- Instrumentation cables 300 V
- Overall screen (OS)
- **Low smoke, low halogen (LSLH)**
- **Oil resistant**

STANDARDS

Product IEC 60228

Test IEC 60332-3-22 Cat.A; IEC 60754; IEC 61034

APPLICATIONS

These cables are intended for transmission of analogue and digital signals. They allow transmission over long distances at high pulse rates. These cables are used in industrial installations such as refineries, chemical plants etc...

Design

Conductor:

Stranded bare copper (class 2)

Insulation:

Polyethylene (PE)

Overall screen:

Tinned copper drain wire

Aluminium/polyester tape

Outer sheath:

Polyvinyl chloride (PVC)

Special low smoke, low halogen (LSLH)

Colour: black or blue

Fire retardant: IEC 60332-3-22(A), limiting oxygen index > 30 as par ASTM D 2863

Low smoke: IEC 61034-2, transmittance > 40 %

Low halogen: IEC 60754-1 HCL < 6 %

Core identification

Pair: Black/white

For multipair White core printed with pair number

Marking

NEXANS 279 YYYY RE - 2Y(St)Y - fl LSLH 300V Nbr. of pairs & cross-section IEC 60332-3-22(A) + metric marking



Conductor flexibility
 Stranded class 2



Fire retardant
 EN IEC 60332-3-22 (cat A)



Oil resistance
 ASTM D 1047



Smoke density
 Low



Operating temp.
 -20 ... 60 °C



Max. conductor temp. in service
 70 °C

Désignation

RE: Instrumentation cable
 2Y: Polyethylene insulation
 (St): Collective screen
 Y: PVC sheath

fl Reduced flame propagation

Low smoke, low halogen (LSLH)

CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Conductor flexibility	Stranded class 2
Insulation	PE
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Outer sheath	PVC
Sheath colour	Black

Dimensional characteristics

Conductor cross-section	0.5 mm ²
Number of pairs	12
Minimum outer diameter	15.1 mm
Maximum outer diameter	16.7 mm
Approximate weight	277 kg/km

Electrical characteristics

Operating voltage	300 V
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Usage characteristics

Fire retardant	EN IEC 60332-3-22 (cat A)
Oil resistance	ASTM D 1047
Smoke density	Low
Operating temperature, range	-20 ... 60 °C
Max. conductor temperature in service	70 °C
Standard	EN

ELECTRICAL CHARACTERISTICS AT 20°C

Electrical data AT 20°C

Cables (mm ²)	Conductor Resistance max. (Ohm / km)	Insulation Resistance min. (Mohm.km)	Mutual Capacitance at 800 Hz maximum (nF / km)			L/R ratio max (µH / ohm)	Test Voltage (core/core) (V)
			Single pair	Up to 4 pairs	Above 4 pairs		
0.5	36.7	5 000	115	95	80	25	2 000
0.75	24.9	5 000	115	95	80	25	2 000
1.34	14.2	5 000	115	95	80	40	2 000



Conductor flexibility
Stranded class 2



Fire retardant
EN IEC 60332-3-22 (cat A)



Oil resistance
ASTM D 1047



Smoke density
Low



Operating temp.
-20 ... 60 °C



Max. conductor temp. in service
70 °C

CORE IDENTIFICATION FOR 2 PAIR CABLES

2 pairs: black P1 - black P2
white P1 - white P2



SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter
To be doubled during laying operations

2 pair cables are assembled as a quad (black and white cores both printed with pair number)



Conductor flexibility
Stranded class 2



Fire retardant
EN IEC 60332-3-22 (cat A)



Oil resistance
ASTM D 1047



Smoke density
Low



Operating temp.
-20 ... 60 °C



Max. conductor temp. in service
70 °C