

RE-2Y(St)Y - fl OS Unarmoured LSLH

RE-2Y(St)Y - fl OS Unarmoured LSLH 12x2x0.5

Contact

Market information
industryprojects.business@nexans.com

Nexans Ref.: 10098125

EAN 13: 3427580121173

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

DESCRIPTION

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



Conductor flexibility
Stranded class 2



Fire retardant
IEC 60332-3-22



Oil resistance
ASTM D 1047



Smoke density
Low



Slightly halogenous
yes



Operating temp.
-20 - 60 °C



Max. conductor temp. in
service
70 °C



STANDARDS

International IEC 60228;
IEC 60332-3-22 Cat.A;
IEC 60754; IEC 61034

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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Pair: Black/white
For multipair White core printed with pair number

Marking

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

Désignation

RE: Instrumentation cable
2Y: Polyethylene insulation
(St): Collective screen
Y: PVC sheath
fl Reduced flame propagation
LSLH: Low emission of smoke and halogens

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	IEC 60332-3-22
Oil resistance	ASTM D 1047
Smoke density	Low
Slightly halogenous	yes



Conductor flexibility
Stranded class 2



Fire retardant
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Usage characteristics

Operating temperature, range	-20 - 60 °C
Max. conductor temperature in service	70 °C
Standard	EN

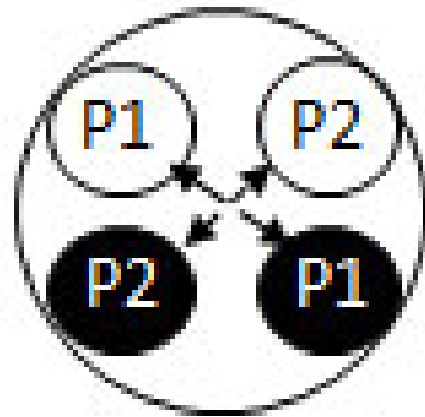
ELECTRICAL CHARACTERISTICS AT 20°C

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

CORE IDENTIFICATION FOR 2 PAIR CABLES

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



SELLING AND DELIVERY INFORMATION

Minimum bending radius:



Conductor flexibility
Stranded class 2



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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)



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IEC 60332-3-22



Oil resistance
ASTM D 1047



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