

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

RE-2Y(St)Y - fl OS Unarmoured LSLH 4x2x1.34

## Contact

Market information  
industryprojects.business@nexans.com

Nexans Ref.: 10101857

EAN 13: 3427580280993

- 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



## STANDARDS

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



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**

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	Blue

### Dimensional characteristics

Conductor cross-section	1.34 mm <sup>2</sup>
Number of pairs	4
Minimum outer diameter	12.2 mm
Maximum outer diameter	13.5 mm
Approximate weight	205 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  
IEC 60332-3-22



Oil resistance  
ASTM D 1047



Smoke density  
Low



Slightly halogenous  
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### Usage characteristics

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

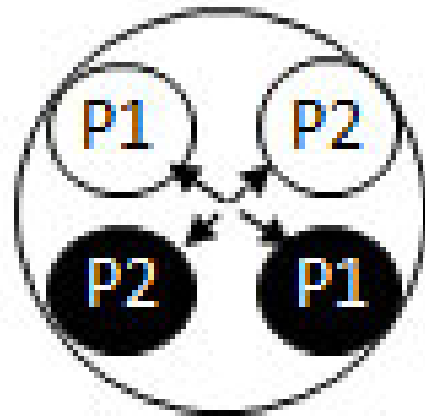
## ELECTRICAL CHARACTERISTICS AT 20°C

### Electrical data AT 20°C

Cables (mm <sup>2</sup> )	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



Fire retardant  
IEC 60332-3-22



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ASTM D 1047



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Slightly halogenous  
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Max. conductor temp. in service  
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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)



Conductor flexibility  
**Stranded class 2**



Fire retardant  
**IEC 60332-3-22**



Oil resistance  
**ASTM D 1047**



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