RE-2Y(St)YSWAY - fl OS Armoured LSLH

- Intrumentation 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 (refineries, chemical plants, etc...) where there is a potential risk of mechanical damage.

Design

Conductor:

Stranded bare copper (class 2)

Insulation:

Polyethylene (PE)

Overall screen:

Tinned copper drain wire

Aluminium/polyester tape

Inner sheath:

Polyvinyl chloride (PVC)

Colour: black

Armour:

Galvanized steel wires (SWA)

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 %

Conductor flexibility
Stranded class 2

Mechanical resistance to impacts
Good

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

Pair:Black/white

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

Marking

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

CONTACT

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

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CHARACTERISTICS

Construction characteristics	
Conductor material	Bare copper
Conductor flexibility	Stranded class 2
Insulation	PE
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Inner sheath	PVC
Armour type	Galvanized steel wires
Outer sheath	PVC
Dimensional characteristics	
Number of triples	-
Electrical characteristics	
Operating voltage	300 V
Mechanical characteristics	
Mechanical resistance to impacts	Good
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

SECTION 0.5 MM²

Reference	nb pairs	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Sheath colour
10098167	1	5.4	7.21	9.5	10.5	212	Black
10201218	2	6.8	7.9	10.2	11.2	232	Black
10098169	4	9.3	11.1	13.5	14.9	352	Black
10098113	8	11.8	13.6	15.9	17.5	470	Black
10098174	12	14	15.8	18.2	20.1	598	Black
10098175	16	16.2	18.0	20.4	22.5	713	Black
10098176	20	17.5	20.0	22.5	24.8	953	Black
10098177	24	18.9	21.4	23.9	26.3	1062	Black


Conductor flexibility
Stranded class 2


Mechanical resistance to impacts
Good


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

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SECTION 0.75 MM²

Reference	nb pairs	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Sheath colour
10098178	1	5.9	7.7	10.0	11.1	236	Black
10101849	1	5.9	7.7	10.0	11.1	236	Blue
10201219	2	6	7.8	10.1	11.1	236	Black
10201223	2	6	7.8	10.1	11.1	236	Blue
10098180	4	10.5	12.3	14.6	16.2	411	Black
10098181	8	13.3	15.1	17.6	19.4	573	Black
10098182	12	15.9	17.7	20.3	22.4	736	Black
10098183	16	18.5	21.0	23.5	25.9	1045	Black
10098184	20	19.9	22.4	25.0	27.6	1176	Black
10098185	24	21.6	24.1	26.7	29.4	1319	Black

SECTION 1.34 MM²

Reference	nb pairs	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Sheath colour
10098186	1	7	8.8	11.0	12.2	289	Black
10101851	1	7	8.8	11.0	12.2	289	Blue
10201220	2	7.3	9.1	11.3	12.5	296	Black
10201244	2	7.3	9.1	11.3	12.5	296	Blue
10098188	4	12.9	14.7	17.2	18.9	546	Black
10101853	4	12.9	14.7	17.2	18.9	546	Blue
10098189	8	16.5	18.3	20.7	22.8	784	Black
10098190	12	19.8	22.3	24.7	27.3	1189	Black
10098191	16	23.1	25.6	28.1	31.0	1462	Black
10098192	20	24.9	27.4	30.1	33.2	1667	Black
10098193	24	27.5	30.0	32.6	36.0	1938	Black

Conductor flexibility
Stranded class 2

Mechanical resistance to impacts
Good

Fire retardant
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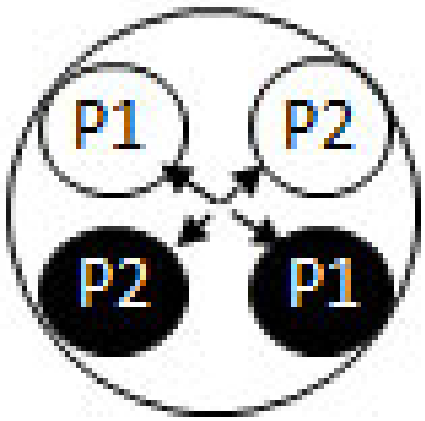
ELECTRICAL CHARACTERISTICS AT 20°C

Electrical data AT 20°C

Cables (mm²)	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:

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
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