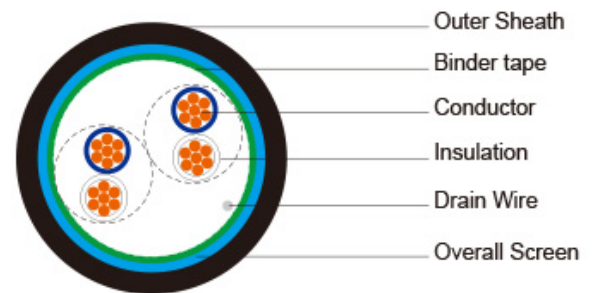


**PE Insulated, LSZH Sheathed & Overall Screened  
Instrumentation Cables (Multipair)**



RE-2Y(St)H 90°C / 300V

<b>STANDARDS</b>	Basic design to EN 50288-7
<b>APPLICATION</b>	Instrument cable minimizes noise and signal interference, delivering clean signals in harsh environments and general manufacturing operations.
<b>FIRE PERFORMANCE</b>	
<b>Flame Retardance (Single Vertical Wire Test)</b>	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2; VDE 0482-332-1; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1*
<b>Reduced Fire Propagation (Vertically-mounted bundled wires &amp; cable test)</b>	EN 60332-3-24 (cat. C); IEC 60332-3-24; BS EN 60332-3-24; VDE 0482-332-3; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); CEI 20-22/3-4; EN 50266-2-4*; DIN VDE 0482-266-2-4
<b>Halogen Free</b>	IEC 60754-1; EN 50267-2-1; DIN VDE 0482-267-2-1; CEI 20-37/2-1 ; BS 6425-1*
<b>No Corrosive Gas Emission</b>	IEC 60754-2; EN 50267-2-2; DIN VDE 0482-267-2-2; CEI 20-37/2-2 ; BS 6425-2*
<b>Minimum Smoke Emission</b>	IEC 61034-1&2; EN 61034 -1&2; DIN VDE 0482-1034-1&2; CEI 20-37/3-1&2; EN 50268-1&2*; BS 7622-1&2*
<b>No Toxic gases</b>	NES 02-713; NF C 20-454
<b>Sunlight Resistance</b>	UL 1581 section 1200
<b>Oil Resistance</b>	ICEA S-73-532**
<b>VOLTAGE RATING</b>	300V
<b>CABLE CONSTRUCTION</b>	
<b>Conductor:</b>	Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
<b>Insulation:</b>	PE compound, EN 50290. 2-23.
<b>Pair:</b>	Two insulated conductors uniformly twisted together with a lay not exceeding 100mm

Note: Asterisk \* denotes superseded standard, \*\*Test temperature +60°C, duration 4h. Retention: min 60% of tensile strength/min.60% of elongation.

<b>Binder tape:</b>	PETP transparent tape
<b>Overall Screen:</b>	Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm <sup>2</sup>
<b>Outer sheath:</b>	Thermoplastic LSZH compound type LTS3 as per BS 7655-6.1 (Thermosetting LSZH compound type SW2-SW4 as per BS 7655-2.6 can be offered.). UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.
<b>COLOUR CODE</b>	
<b>Insulation:</b>	Black / White, continuously numbered on white core(1, 2..)for multipair.
<b>Outer Sheath:</b>	Black or blue for intrinsically safe systems
<b>Physical AND THERMAL PROPERTIES</b>	
<b>Temperature Range During Operation (Fixed State):</b>	-30°C – +90°C
<b>Temperature Range During Installation (Mobile State):</b>	-5°C – +50°C
<b>Minimum Bending Radius:</b>	7.5 X Overall Diameter

**CONSTRUCTION PARAMETERS**

Cable Code	RE-2Y(St)H				
	No. of Pairsx2 xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm2	mm	mm	mm	kg/km
0.5mm <sup>2</sup> , Multipair					
RE-2Y(St)H 2P0.5	2x2x0.5	0.35	0.9	7.6	66
RE-2Y(St)H 4P0.5	3x2x0.5	0.35	0.9	8.8	98
RE-2Y(St)H 5P0.5	4x2x0.5	0.35	1.0	9.8	118
RE-2Y(St)H 6P0.5	5x2x0.5	0.35	1.0	10.6	138
RE-2Y(St)H 8P0.5	8x2x0.5	0.35	1.0	11.3	160
RE-2Y(St)H 10P0.5	10x2x0.5	0.35	1.1	12.9	201
RE-2Y(St)H 12P0.5	12x2x0.5	0.35	1.1	13.5	236
RE-2Y(St)H 16P0.5	16x2x0.5	0.35	1.1	15.2	300
RE-2Y(St)H 20P0.5	20x2x0.5	0.35	1.2	16.9	367
RE-2Y(St)H 24P0.5	24x2x0.5	0.35	1.2	18.3	419
0.75mm <sup>2</sup> , Multipair					

RE-2Y(St)H 2P0.75	2x2x0.75	0.38	0.9	8.5	87
RE-2Y(St)H 4P0.75	3x2x0.75	0.38	1.0	10.0	123
RE-2Y(St)H 5P0.75	4x2x0.75	0.38	1.0	10.9	150
RE-2Y(St)H 6P0.75	5x2x0.75	0.38	1.0	11.8	175
RE-2Y(St)H 8P0.75	8x2x0.75	0.38	1.1	12.8	220
RE-2Y(St)H 10P0.75	10x2x0.75	0.38	1.1	14.5	267
RE-2Y(St)H 12P0.75	12x2x0.75	0.38	1.1	15.1	298
RE-2Y(St)H 16P0.75	16x2x0.75	0.38	1.2	17.3	409
RE-2Y(St)H 20P0.75	20x2x0.75	0.38	1.3	19.2	480
RE-2Y(St)H 24P0.75	24x2x0.75	0.38	1.3	20.8	561
1.0mm <sup>2</sup> , Multipair					
RE-2Y(St)H 2P1.0	2x2x1.0	0.4	0.9	9.2	102
RE-2Y(St)H 4P1.0	3x2x1.0	0.4	1.0	10.9	156
RE-2Y(St)H 5P1.0	4x2x1.0	0.4	1.0	11.9	183
RE-2Y(St)H 6P1.0	5x2x1.0	0.4	1.0	13.0	224
RE-2Y(St)H 8P1.0	8x2x1.0	0.4	1.1	14.0	273
RE-2Y(St)H 10P1.0	10x2x1.0	0.4	1.1	15.9	324
RE-2Y(St)H 12P1.0	12x2x1.0	0.4	1.2	16.8	383
RE-2Y(St)H 16P1.0	16x2x1.0	0.4	1.2	19.0	513
RE-2Y(St)H 20P1.0	20x2x1.0	0.4	1.3	21.1	619
RE-2Y(St)H 24P1.0	24x2x1.0	0.4	1.4	23.1	738
1.3mm <sup>2</sup> , Multipair					
RE-2Y(St)H 2P1.3	2x2x1.3	0.45	1.0	10.4	122
RE-2Y(St)H 4P1.3	3x2x1.3	0.45	1.0	12.0	190
RE-2Y(St)H 5P1.3	4x2x1.3	0.45	1.1	13.4	233
RE-2Y(St)H 6P1.3	5x2x1.3	0.45	1.1	14.6	273
RE-2Y(St)H 8P1.3	8x2x1.3	0.45	1.2	15.7	330
RE-2Y(St)H 10P1.3	10x2x1.3	0.45	1.2	17.9	422
RE-2Y(St)H 12P1.3	12x2x1.3	0.45	1.3	18.9	487
RE-2Y(St)H 16P1.3	16x2x1.3	0.45	1.3	21.4	678
RE-2Y(St)H 20P1.3	20x2x1.3	0.45	1.4	23.8	790
RE-2Y(St)H 24P1.3	24x2x1.3	0.45	1.5	25.9	921
1.5mm <sup>2</sup> , Multipair					
RE-2Y(St)H 2P1.5	2x2x1.5	0.45	1.0	10.8	139
RE-2Y(St)H 4P1.5	3x2x1.5	0.45	1.1	12.7	212
RE-2Y(St)H 5P1.5	4x2x1.5	0.45	1.1	14.0	259
RE-2Y(St)H 6P1.5	5x2x1.5	0.45	1.2	15.2	312
RE-2Y(St)H 8P1.5	8x2x1.5	0.45	1.2	16.4	378

RE-2Y(St)H 10P1.5	10x2x1.5	0.45	1.3	18.8	473
RE-2Y(St)H 12P1.5	12x2x1.5	0.45	1.3	19.7	548
RE-2Y(St)H 16P1.5	16x2x1.5	0.45	1.4	22.5	727
RE-2Y(St)H 20P1.5	20x2x1.5	0.45	1.5	25.0	903
RE-2Y(St)H 24P1.5	24x2x1.5	0.45	1.5	27.1	1051

Note : Other conductor sizes & core configurations are available upon request

**Electrical PROPERTIES**

<b>Conductor Area Size</b>	mm <sup>2</sup>	0.5	0.75	1.0	1.3	1.5
<b>Insulation thickness (nominal)</b>	mm	0.35	0.38	0.4	0.45	0.45
<b>Conductor resistance (20°C)</b>	Ω/km	36.7	25	18.5	14.2	12.3
<b>Insulation resistance (20°C)</b>	MΩ.km(Min.)	5000				
<b>Mutual Capacitance (1 kHz)</b>	pF/m(Max.)					
	<u>≤ 4 pairs</u>	90	90	90	102	102
	<u>all other pairs</u>	75	75	75	85	85
<b>Capacitance unbalance(1 kHz)</b>	pF/500 m (Max.)	500				
<b>Inductance</b>	mH/km (Max.)	1				
<b>L / R (ratio) (max.)</b>	μH/Ω	25	25	25	40	40
<b>Operating voltage Urms</b>	V	300				
<b>Test Voltage</b>	Core to Core	V	1500			
	Core to Screen	V	1500			