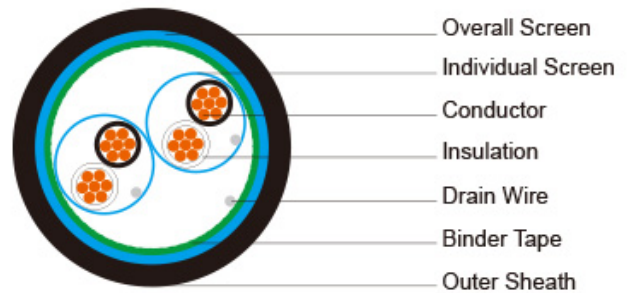


PE Insulated, LSZH Sheathed, Individual and Overall Screened Instrumentation Cables (Multipair)



RE-2Y(St)H Pimf 90°C / 300V

STANDARDS	Basic design to EN 50288-7
APPLICATION	Instrument cable minimizes noise and signal interference, delivering clean signals in harsh environments and general manufacturing operations.
FIRE PERFORMANCE	
Flame Retardance (Single Vertical Wire Test)	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*
Reduced Fire Propagation (Vertically-mounted bundled wires & cable test)	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
Halogen Free	IEC 60754-1; EN 50267-2-1; DIN VDE 0482-267-2-1; CEI 20-37/2-1 ; BS 6425-1*
No Corrosive Gas Emission	IEC 60754-2; EN 50267-2-2; DIN VDE 0482-267-2-2; CEI 20-37/2-2 ; BS 6425-2*
Minimum Smoke Emission	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*
No Toxic gases	NES 02-713; NF C 20-454
Sunlight Resistance	UL 1581 section 1200
Oil Resistance	ICEA S-73-532**
VOLTAGE RATING	300V
CABLE CONSTRUCTION	
Conductor:	Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation:	PE compound, EN 50290. 2-23.
Pair:	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Note: Asterisk * denotes superseded standard, **Test temperature +60°C, duration 4h.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.

Binder tape:	PETP transparent tape
Overall Screen:	Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm ²
Outer Sheath:	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.
COLOUR CODE	
Insulation:	Black / White, continuously numbered on white core(1, 2..)for multipair.
Outer Sheath:	Black or blue for intrinsically safe systems
Physical AND THERMAL PROPERTIES	
Temperature Range During Operation (Fixed State):	-30°C – +90°C
Temperature Range During Installation (Mobile State):	-20°C – +50°C
Minimum Bending Radius:	7.5 X Overall Diameter

CONSTRUCTION PARAMETERS

Cable Code	RE-2Y(St)H PiMF				
	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 ² , Multipair					
RE-2Y(St)H PiMF 2P0.5	2x2x0.5	0.35	0.9	8.7	84
RE-2Y(St)H PiMF 4P0.5	3x2x0.5	0.35	1.0	10.2	120
RE-2Y(St)H PiMF 5P0.5	4x2x0.5	0.35	1.0	11.2	145
RE-2Y(St)H PiMF 6P0.5	5x2x0.5	0.35	1.0	12.1	171
RE-2Y(St)H PiMF 8P0.5	8x2x0.5	0.35	1.1	13.1	212
RE-2Y(St)H PiMF 10P0.5	10x2x0.5	0.35	1.2	15.1	266
RE-2Y(St)H PiMF 12P0.5	12x2x0.5	0.35	1.2	15.7	287
RE-2Y(St)H PiMF 16P0.5	16x2x0.5	0.35	1.2	17.8	387
RE-2Y(St)H PiMF 20P0.5	20x2x0.5	0.35	1.3	19.7	463
RE-2Y(St)H PiMF 24P0.5	24x2x0.5	0.35	1.4	21.5	554
0.75mm ² , Multipair					

RE-2Y(St)H PiMF 2P0.75	2x2x0.75	0.38	1.0	9.7	101
RE-2Y(St)H PiMF 4P0.75	3x2x0.75	0.38	1.0	11.2	152
RE-2Y(St)H PiMF 5P0.75	4x2x0.75	0.38	1.1	12.5	177
RE-2Y(St)H PiMF 6P0.75	5x2x0.75	0.38	1.1	13.6	224
RE-2Y(St)H PiMF 8P0.75	8x2x0.75	0.38	1.1	14.4	269
RE-2Y(St)H PiMF 10P0.75	10x2x0.75	0.38	1.2	16.6	335
RE-2Y(St)H PiMF 12P0.75	12x2x0.75	0.38	1.2	17.4	376
RE-2Y(St)H PiMF 16P0.75	16x2x0.75	0.38	1.3	19.8	485
RE-2Y(St)H PiMF 20P0.75	20x2x0.75	0.38	1.4	22.0	589
RE-2Y(St)H PiMF 24P0.75	24x2x0.75	0.38	1.5	24.0	713
1.0mm ² , Multipair					
RE-2Y(St)H PiMF 2P1.0	2x2x1.0	0.4	1.0	10.4	117
RE-2Y(St)H PiMF 4P1.0	3x2x1.0	0.4	1.0	12.1	174
RE-2Y(St)H PiMF 5P1.0	4x2x1.0	0.4	1.1	13.5	220
RE-2Y(St)H PiMF 6P1.0	5x2x1.0	0.4	1.1	14.7	257
RE-2Y(St)H PiMF 8P1.0	8x2x1.0	0.4	1.2	15.8	324
RE-2Y(St)H PiMF 10P1.0	10x2x1.0	0.4	1.2	18.0	403
RE-2Y(St)H PiMF 12P1.0	12x2x1.0	0.4	1.3	19.0	456
RE-2Y(St)H PiMF 16P1.0	16x2x1.0	0.4	1.3	21.5	603
RE-2Y(St)H PiMF 20P1.0	20x2x1.0	0.4	1.4	23.9	721
RE-2Y(St)H PiMF 24P1.0	24x2x1.0	0.4	1.5	26.1	866
1.3mm ² , Multipair					
RE-2Y(St)H PiMF 2P1.3	2x2x1.3	0.45	1.0	11.4	143
RE-2Y(St)H PiMF 4P1.3	3x2x1.3	0.45	1.1	13.4	208
RE-2Y(St)H PiMF 5P1.3	4x2x1.3	0.45	1.1	14.8	271
RE-2Y(St)H PiMF 6P1.3	5x2x1.3	0.45	1.2	16.3	319
RE-2Y(St)H PiMF 8P1.3	8x2x1.3	0.45	1.3	17.6	407
RE-2Y(St)H PiMF 10P1.3	10x2x1.3	0.45	1.3	20.0	502
RE-2Y(St)H PiMF 12P1.3	12x2x1.3	0.45	1.4	21.1	554
RE-2Y(St)H PiMF 16P1.3	16x2x1.3	0.45	1.5	24.1	730
RE-2Y(St)H PiMF 20P1.3	20x2x1.3	0.45	1.6	26.8	912
RE-2Y(St)H PiMF 24P1.3	24x2x1.3	0.45	1.7	29.2	1090
1.5mm ² , Multipair					
RE-2Y(St)H PiMF 2P1.5	2x2x1.5	0.45	1.0	11.8	158
RE-2Y(St)H PiMF 4P1.5	3x2x1.5	0.45	1.1	13.9	243
RE-2Y(St)H PiMF 5P1.5	4x2x1.5	0.45	1.2	15.5	290
RE-2Y(St)H PiMF 6P1.5	5x2x1.5	0.45	1.2	16.9	358
RE-2Y(St)H PiMF 8P1.5	8x2x1.5	0.45	1.3	18.2	447

RE-2Y(St)H PiMF 10P1.5	10x2x1.5	0.45	1.4	21.0	550
RE-2Y(St)H PiMF 12P1.5	12x2x1.5	0.45	1.4	21.9	625
RE-2Y(St)H PiMF 16P1.5	16x2x1.5	0.45	1.5	25.1	831
RE-2Y(St)H PiMF 20P1.5	20x2x1.5	0.45	1.6	27.8	1007
RE-2Y(St)H PiMF 24P1.5	24x2x1.5	0.45	1.7	30.4	1223

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

Electrical PROPERTIES

Conductor Area Size	mm ²	0.5	0.75	1.0	1.3	1.5
Insulation thickness (nominal)	mm	0.4	0.4	0.4	0.45	0.45
Conductor resistance (20°C)	Ω/km	36.7	25	18.5	14.2	12.3
Insulation resistance (20°C)	MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)	pF/m(Max.)	115				
Inductance	mH/km (Max.)	1				
L / R (ratio) (max.)	μH/Ω	25	25	25	40	40
Operating voltage Urms	V	300				
Test Voltage	Core to Core	V	1500			
	Core to Screen	V	1500			