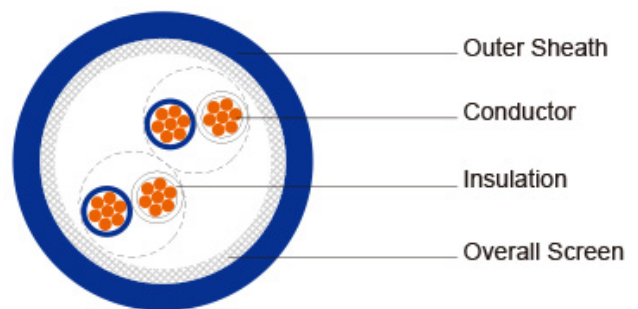


PE Insulated, LSZH Sheathed, CWB Screened
Instrumentation Cables (Multipair)



RE-2Y(C)H 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 conductors twisted to form a pair
Lay-up:	Pairs laid up in layers of optimum pitch

Note: Asterisk * denotes superseded standard, **Test temperature +60°C, duration 4h.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

Separator:	Polyester tape
Overall Screen:	Tinned copper wire braid
Outer sheath:	Thermoplastic LSZH compound type to EN 50290-2-27.
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 – +70°C
Temperature Range During Installation (Mobile State):	-5°C – +50°C
Minimum Bending Radius:	7.5 X Overall Diameter

CONSTRUCTION PARAMETERS

Cable Code	RE-2Y(C)H		
	No. of Pairsx2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm2	Kg/km	Kg/km
0.5mm2, Multipair			
RE-2Y(C)H 1P0.5	1x2x0.50	8.3	110
RE-2Y(C)H 2P0.5	2x2x0.50	10.7	143
RE-2Y(C)H 3P0.5	3x2x0.50	11.1	158
RE-2Y(C)H 4P0.5	4x2x0.50	11.9	181
RE-2Y(C)H 6P0.5	6x2x0.50	13.6	230
RE-2Y(C)H 8P0.5	8x2x0.50	14.2	264
RE-2Y(C)H 12P0.5	12x2x0.50	16.4	343
RE-2Y(C)H 16P0.5	16x2x0.50	18.2	418
RE-2Y(C)H 20P0.5	20x2x0.50	19.7	487
RE-2Y(C)H 24P0.5	24x2x0.50	21.1	557
0.75mm2, Multipair			
RE-2Y(C)H 1P0.75	1x2x0.75	8.7	119
RE-2Y(C)H 2P0.75	2x2x0.75	11.4	161
RE-2Y(C)H 3P0.75	3x2x0.75	11.9	185
RE-2Y(C)H 4P0.75	4x2x0.75	12.7	214

RE-2Y(C)H 6P0.75	6x2x0.75	14.6	278
RE-2Y(C)H 8P0.75	8x2x0.75	15.4	324
RE-2Y(C)H 12P0.75	12x2x0.75	17.8	427
RE-2Y(C)H 16P0.75	16x2x0.75	19.8	526
RE-2Y(C)H 20P0.75	20.x2x0.75	21.5	623
RE-2Y(C)H 24P0.75	24x2x0.75	23.1	714
1.0mm ² , Multipair			
RE-2Y(C)H 1P1.0	1x2x1.0	9.4	1.3.5
RE-2Y(C)H 2P1.0	2x2x1.0	12.3	184
RE-2Y(C)H 3P1.0	3x2x1.0	12.8	214
RE-2Y(C)H 4P1.0	4x2x1.0	13.7	251
RE-2Y(C)H 6P1.0	6x2x1.0	15.6	326
RE-2Y(C)H 8P1.0	8x2x1.0	16.4	382
RE-2Y(C)H 12P1.0	12x2x1.0	19.0	511
RE-2Y(C)H 16P1.0	16x2x1.0	21.2	636
RE-2Y(C)H 20P1.0	20.x2x1.0	23.5	775
RE-2Y(C)H 24P1.0	24x2x1.0	25.3	892
1.3mm ² , Multipair			
RE-2Y(C)H 1P1.3	1x2x1.3	9.7	140
RE-2Y(C)H 2P1.3	2x2x1.3	12.9	204
RE-2Y(C)H 3P1.3	3x2x1.3	13.5	242
RE-2Y(C)H 4P1.3	4x2x1.3	14.5	285
RE-2Y(C)H 6P1.3	6x2x1.3	16.7	375
RE-2Y(C)H 8P1.3	8x2x1.3	17.4	444
RE-2Y(C)H 12P1.3	12x2x1.3	20.2	599
RE-2Y(C)H 16P1.3	16x2x1.3	22.6	750
RE-2Y(C)H 20P1.3	20.x2x1.3	25.1	916
RE-2Y(C)H 24P1.3	24x2x1.3	27.0	1064

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.)					

		<u>≤ 4 pairs</u>	115	115	115	120	120
		<u>all other pairs</u>	90	90	90	105	105
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500				
L / R (ratio) (max.)		μH/Ω	25	25	25	40	40
Operating voltage Urms		V	300	300	300	300	300
Test Voltage	Core to Core	V	1500	1500	1500	1500	1500
	Core to Screen	V	1500	1500	1500	1500	1500