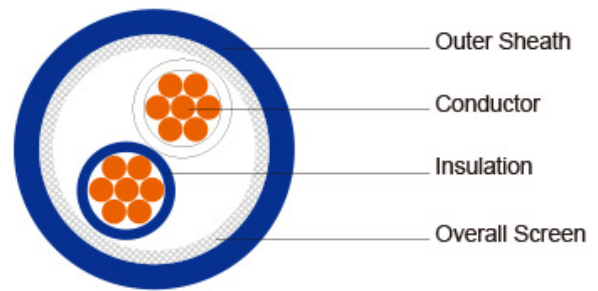


**PE Insulated, LSZH Sheathed, CWB Screened  
Instrumentation Cables (Single Pair)**



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

Note: Asterisk \* denotes superseded standard, \*\* denotes Test temperature +60°C, duration 4h.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

<b>Separator:</b>	Polyester tape
<b>Overall Screen:</b>	Tinned copper wire braid
<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.

**COLOUR CODE**

<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

**Physical AND THERMAL PROPERTIES**

<b>Temperature Range During Operation (Fixed State):</b>	-30°C – +70°C
<b>Temperature Range During Installation (Mobile State):</b>	-5°C – +50°C

**Minimum Bending Radius:** 7.5 X Overall Diameter

**CONSTRUCTION PARAMETERS**

Cable Code	RE-2Y(C)H		
	No. of Pairs x2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm2	Kg/km	Kg/km
RE-2Y(C)H 1P0.5	1x2x0.50	8.3	110
RE-2Y(C)H 1P0.75	1x2x0.75	8.7	119
RE-2Y(C)H 1P1.0	1x2x1.0	9.4	135
RE-2Y(C)H 1P1.3	1x2x1.3	9.7	140

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
<b>Insulation thickness (nominal)</b>	mm	0.4	0.4	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.)	115				

<b>Capacitance unbalance(1 kHz)</b>		pF/500 m (Max.)	300			
<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			