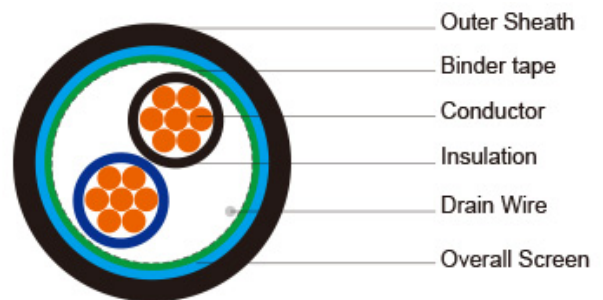


**PE Insulated, LSZH Sheathed & Overall Screened
Instrumentation Cables (Single Pair)**



RE-2Y(St)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**
Note: Asterisk * denotes superseded standard, **Test temperature +60°C, duration 4h. Retention: min 60% of tensile strength/min.60% of elongation.	
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

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				
	No. of Pairsx2 xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm2	mm	mm	mm	kg/km
RE-2Y(St)H 1P0.5	1x2x0.50	0.35	0.8	5.2	38
RE-2Y(St)H 1P0.75	1x2x0.75	0.38	0.8	5.6	49
RE-2Y(St)H 1P1.0	1x2x1.0	0.40	0.9	6.3	56
RE-2Y(St)H 1P1.3	1x2x1.3	0.45	0.9	6.8	65
RE-2Y(St)H 1P1.5	1x2x1.5	0.45	0.9	7.1	74

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				
	<u>≤ 4 pairs</u>	90	90	90	102	102
	<u>all other pairs</u>	75	75	75	85	85
Capacitance unbalance(1 kHz)	pF/500 m (Max.)	500				
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			