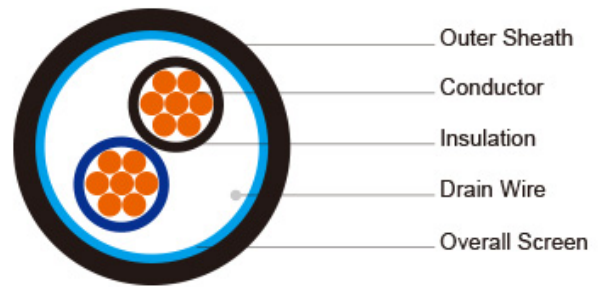


**PE Insulated, LSZH Sheathed & Overall
Screened Instrumentation Cables (Multicore)**



RE-2Y(St)H 90°C / 500V

STANDARDS

Basic design to EN 50288-7

APPLICATION

The LSZH sheathed cables are generally use for indoor installation and suitable for wet and damp areas. Generally, the cables are used within industrial process manufacturing plants for communication, data and voice transmission signals and services. Also used for the interconnection of electrical equipment and instruments, the LSZH sheath can reduce toxic smoke and fume emission.

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Note: Asterisk * denotes superseded standard, ** denotes Test temperature +60°C, duration 4h.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

VOLTAGE RATING

500V

CABLE CONSTRUCTION

Conductor:

Annealed copper solid or plain copper stranded to IEC 60228 Class 2.

Insulation:

PE compound, EN 50290. 2-23.

Overall Screen:	Aluminium/polyester tape with 0.5mm ² screen (7/0.3mm) tinned copper drain wire.
Inner Sheath(optional):	LSZH compound
Armouring(optional):	Galvanised steel wire
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 / Blue, continuously numbered on blue core(1, 2..) for wrapped conductor
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):	-5°C – +50°C
Minimum Bending Radius:	7.5 X Overall Diameter

CONSTRUCTION PARAMETERS

Cable Code	RE-2Y(St)H				
	No. of Cores x1xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm ²	mm	mm	mm	kg/km
0.5mm ² , Multicore					
RE-2Y(St)H 2C0.5	2x1x0.5	0.55	0.9	6.2	45
RE-2Y(St)H 3C0.5	3x1x0.5	0.55	0.9	6.5	53
RE-2Y(St)H 4C0.5	4x1x0.5	0.55	0.9	7.0	60
RE-2Y(St)H 5C0.5	5x1x0.5	0.55	0.9	7.6	71
RE-2Y(St)H 8C0.5	8x1x0.5	0.55	1.0	9.1	95
RE-2Y(St)H 10C0.5	10x1x0.5	0.55	1.0	10.4	122
RE-2Y(St)H 12C0.5	12x1x0.5	0.55	1.0	10.7	145
RE-2Y(St)H 14C0.5	14x1x0.5	0.55	1.0	11.3	162
RE-2Y(St)H 16C0.5	16x1x0.5	0.55	1.1	11.8	180
RE-2Y(St)H 20C0.5	20x1x0.5	0.55	1.1	13.3	214
RE-2Y(St)H 24C0.5	24x1x0.5	0.55	1.1	14.7	258
RE-2Y(St)H 27C0.5	27x1x0.5	0.55	1.2	15.0	282

RE-2Y(St)H 30C0.5	30x1x0.5	0.55	1.2	15.7	308
RE-2Y(St)H 37C0.5	37x1x0.5	0.55	1.2	16.9	372
RE-2Y(St)H 40C0.5	40x1x0.5	0.55	1.2	17.6	398
0.75mm ² , Multicore					
RE-2Y(St)H 2C0.75	2x1x0.75	0.55	0.9	6.5	
RE-2Y(St)H 3C0.75	3x1x0.75	0.55	0.9	6.9	
RE-2Y(St)H 4C0.75	4x1x0.75	0.55	0.9	7.4	
RE-2Y(St)H 5C0.75	5x1x0.75	0.55	0.9	8.1	
RE-2Y(St)H 8C0.75	8x1x0.75	0.55	1.0	9.7	
RE-2Y(St)H 10C0.75	10x1x0.75	0.55	1.0	11.1	
RE-2Y(St)H 12C0.75	12x1x0.75	0.55	1.0	11.5	
RE-2Y(St)H 14C0.75	14x1x0.75	0.55	1.1	12.2	
RE-2Y(St)H 16C0.75	16x1x0.75	0.55	1.1	12.9	
RE-2Y(St)H 20C0.75	20x1x0.75	0.55	1.1	14.3	
RE-2Y(St)H 24C0.75	24x1x0.75	0.55	1.2	16.0	
RE-2Y(St)H 27C0.75	27x1x0.75	0.55	1.2	16.3	
RE-2Y(St)H 30C0.75	30x1x0.75	0.55	1.2	16.9	
RE-2Y(St)H 37C0.75	37x1x0.75	0.55	1.2	18.2	
RE-2Y(St)H 40C0.75	40x1x0.75	0.55	1.3	19.1	
1.0mm ² , Multicore					
RE-2Y(St)H 2C1.0	2x1x1.0	0.55	0.9	6.9	58
RE-2Y(St)H 3C1.0	3x1x1.0	0.55	0.9	7.3	70
RE-2Y(St)H 4C1.0	4x1x1.0	0.55	0.9	7.9	85
RE-2Y(St)H 5C1.0	5x1x1.0	0.55	0.9	8.6	98
RE-2Y(St)H 8C1.0	8x1x1.0	0.55	1.0	10.3	136
RE-2Y(St)H 10C1.0	10x1x1.0	0.55	1.0	11.9	194
RE-2Y(St)H 12C1.0	12x1x1.0	0.55	1.0	12.2	214
RE-2Y(St)H 14C1.0	14x1x1.0	0.55	1.1	13.0	243
RE-2Y(St)H 16C1.0	16x1x1.0	0.55	1.1	13.7	280
RE-2Y(St)H 20C1.0	20x1x1.0	0.55	1.1	15.2	336
RE-2Y(St)H 24C1.0	24x1x1.0	0.55	1.2	17.0	404
RE-2Y(St)H 27C1.0	27x1x1.0	0.55	1.2	17.4	443
RE-2Y(St)H 30C1.0	30x1x1.0	0.55	1.2	18.0	484
RE-2Y(St)H 37C1.0	37x1x1.0	0.55	1.2	19.6	590
RE-2Y(St)H 40C1.0	40x1x1.0	0.55	1.3	20.4	632
1.3mm ² , Multicore					
RE-2Y(St)H 2C1.3	2x1x1.3	0.6	0.9	7.4	72
RE-2Y(St)H 3C1.3	3x1x1.3	0.6	0.9	7.9	86

RE-2Y(St)H 4C1.3	4x1x1.3	0.6	0.9	8.5	105
RE-2Y(St)H 5C1.3	5x1x1.3	0.6	1.0	9.5	135
RE-2Y(St)H 8C1.3	8x1x1.3	0.6	1.0	11.2	176
RE-2Y(St)H 10C1.3	10x1x1.3	0.6	1.1	13.2	228
RE-2Y(St)H 12C1.3	12x1x1.3	0.6	1.1	13.6	269
RE-2Y(St)H 14C1.3	14x1x1.3	0.6	1.1	14.3	305
RE-2Y(St)H 16C1.3	16x1x1.3	0.6	1.1	15.0	351
RE-2Y(St)H 20C1.3	20x1x1.3	0.6	1.2	16.9	423
RE-2Y(St)H 24C1.3	24x1x1.3	0.6	1.2	18.7	507
RE-2Y(St)H 27C1.3	27x1x1.3	0.6	1.3	19.3	558
RE-2Y(St)H 30C1.3	30x1x1.3	0.6	1.3	20.0	611
RE-2Y(St)H 37C1.3	37x1x1.3	0.6	1.3	21.6	743
RE-2Y(St)H 40C1.3	40x1x1.3	0.6	1.4	22.7	796
1.5mm ² , Multicore					
RE-2Y(St)H 2C1.5	2x1x1.5	0.6	0.9	7.7	78
RE-2Y(St)H 3C1.5	3x1x1.5	0.6	0.9	8.1	94
RE-2Y(St)H 4C1.5	4x1x1.5	0.6	0.9	8.8	116
RE-2Y(St)H 5C1.5	5x1x1.5	0.6	1.0	9.8	149
RE-2Y(St)H 8C1.5	8x1x1.5	0.6	1.0	11.6	196
RE-2Y(St)H 10C1.5	10x1x1.5	0.6	1.1	13.7	261
RE-2Y(St)H 12C1.5	12x1x1.5	0.6	1.1	14.1	300
RE-2Y(St)H 14C1.5	14x1x1.5	0.6	1.1	14.8	340
RE-2Y(St)H 16C1.5	16x1x1.5	0.6	1.1	15.6	392
RE-2Y(St)H 20C1.5	20x1x1.5	0.6	1.2	17.6	474
RE-2Y(St)H 24C1.5	24x1x1.5	0.6	1.3	19.6	567
RE-2Y(St)H 27C1.5	27x1x1.5	0.6	1.3	20.1	625
RE-2Y(St)H 30C1.5	30x1x1.5	0.6	1.3	20.8	685
RE-2Y(St)H 37C1.5	37x1x1.5	0.6	1.4	22.6	834
RE-2Y(St)H 40C1.5	40x1x1.5	0.6	1.4	23.6	898
2.5mm ² , Multicore					
RE-2Y(St)H 2C2.5	2x1x2.5	0.7	0.9	8.9	113
RE-2Y(St)H 3C2.5	3x1x2.5	0.7	1.0	9.7	145
RE-2Y(St)H 4C2.5	4x1x2.5	0.7	1.0	10.5	178
RE-2Y(St)H 5C2.5	5x1x2.5	0.7	1.0	11.9	285
RE-2Y(St)H 8C2.5	8x1x2.5	0.7	1.1	13.9	376
RE-2Y(St)H 10C2.5	10x1x2.5	0.7	1.2	16.3	426
RE-2Y(St)H 12C2.5	12x1x2.5	0.7	1.2	16.9	537
RE-2Y(St)H 14C2.5	14x1x2.5	0.7	1.2	17.7	609

RE-2Y(St)H 16C2.5	16x1x2.5	0.7	1.3	18.9	711
RE-2Y(St)H 20C2.5	20x1x2.5	0.7	1.3	21.1	826
RE-2Y(St)H 24C2.5	24x1x2.5	0.7	1.4	23.6	930
RE-2Y(St)H 27C2.5	27x1x2.5	0.7	1.4	24.1	1040
RE-2Y(St)H 30C2.5	30x1x2.5	0.7	1.5	25.2	1142
RE-2Y(St)H 37C2.5	37x1x2.5	0.7	1.5	27.2	1392
RE-2Y(St)H 40C2.5	40x1x2.5	0.7	1.6	28.5	1494

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	2.5
Insulation thickness (nominal)	mm	0.55	0.55	0.55	0.6	0.6	0.7
Conductor resistance (20°C)	Ω/km	36.0	24.5	18.1	13.9	12.1	7.4
Insulation resistance (20°C)	MΩ.km(Min.)	5000					
Mutual Capacitance (1 kHz)	pF/m(Max.)	115					
Capacitance unbalance(1 kHz)	pF/500 m (Max.)	500					
L / R (ratio) (max.)	μH/Ω	25	25	25	40	40	60
Operating voltage	V	500					
Test Voltage Urms	Core to Core	V	2000				
	Core to Screen	V	2000				