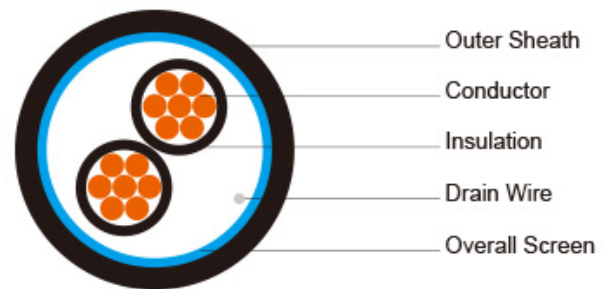


**XLPE Insulated, LSZH Sheathed & Overall
Screened Instrumentation Cables (Multicore)**



RE-2X(St)H 90°C / 500V

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Note: Asterisk * denotes superseded standard, ** denotes Test temperature +60°C, duration 4h.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

VOLTAGE RATING	500V
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CABLE CONSTRUCTION	
Conductor:	Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation:	Extruded cross-linked XLPE compound, EN 50290. 2-29.
Overall Screen:	Aluminium/polyester tape with tinned copper drain wire, 0.5mm2

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 numbered

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-2X(St)H				
	No. of Core x1xCross Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm2	mm	mm	mm	kg/km
0.5mm2, Multicore					
RE-2X(St)H 2C0.5	2x1x0.5	0.55	0.9	6.2	47
RE-2X(St)H 3C0.5	3x1x0.5	0.55	0.9	6.5	50
RE-2X(St)H 4C0.5	4x1x0.5	0.55	0.9	7.0	60
RE-2X(St)H 5C0.5	5x1x0.5	0.55	0.9	7.6	71
RE-2X(St)H 8C0.5	8x1x0.5	0.55	1.0	9.1	95
RE-2X(St)H 10C0.5	10x1x0.5	0.55	1.0	10.4	127
RE-2X(St)H 12C0.5	12x1x0.5	0.55	1.0	10.7	151
RE-2X(St)H 14C0.5	14x1x0.5	0.55	1.0	11.3	162
RE-2X(St)H 16C0.5	16x1x0.5	0.55	1.1	11.8	180
RE-2X(St)H 20C0.5	20x1x0.5	0.55	1.1	13.3	222
RE-2X(St)H 24C0.5	24x1x0.5	0.55	1.1	14.7	274
RE-2X(St)H 27C0.5	27x1x0.5	0.55	1.2	15.0	282
RE-2X(St)H 30C0.5	30x1x0.5	0.55	1.2	15.7	318
RE-2X(St)H 37C0.5	37x1x0.5	0.55	1.2	16.9	372
RE-2X(St)H 40C0.5	40x1x0.5	0.55	1.2	17.6	372
0.75mm2, Multicore					

RE-2X(St)H 2C0.75	2x1x0.75	0.55	0.9	6.5	51
RE-2X(St)H 3C0.75	3x1x0.75	0.55	0.9	6.9	62
RE-2X(St)H 4C0.75	4x1x0.75	0.55	0.9	7.4	74
RE-2X(St)H 5C0.75	5x1x0.75	0.55	0.9	8.1	96
RE-2X(St)H 8C0.75	8x1x0.75	0.55	1.0	9.7	126
RE-2X(St)H 10C0.75	10x1x0.75	0.55	1.0	11.1	156
RE-2X(St)H 12C0.75	12x1x0.75	0.55	1.0	11.5	183
RE-2X(St)H 14C0.75	14x1x0.75	0.55	1.1	12.2	200
RE-2X(St)H 16C0.75	16x1x0.75	0.55	1.1	12.9	224
RE-2X(St)H 20C0.75	20x1x0.75	0.55	1.1	14.3	284
RE-2X(St)H 24C0.75	24x1x0.75	0.55	1.2	16.0	324
RE-2X(St)H 27C0.75	27x1x0.75	0.55	1.2	16.3	363
RE-2X(St)H 30C0.75	30x1x0.75	0.55	1.2	16.9	396
RE-2X(St)H 37C0.75	37x1x0.75	0.55	1.2	18.2	472
RE-2X(St)H 40C0.75	40x1x0.75	0.55	1.3	19.1	514
1.0mm ² , Multicore					
RE-2X(St)H 2C1.0	2x1x1.0	0.55	0.9	6.9	61
RE-2X(St)H 3C1.0	3x1x1.0	0.55	0.9	7.3	70
RE-2X(St)H 4C1.0	4x1x1.0	0.55	0.9	7.9	85
RE-2X(St)H 5C1.0	5x1x1.0	0.55	0.9	8.6	109
RE-2X(St)H 8C1.0	8x1x1.0	0.55	1.0	10.3	157
RE-2X(St)H 10C1.0	10x1x1.0	0.55	1.0	11.9	193
RE-2X(St)H 12C1.0	12x1x1.0	0.55	1.0	12.2	214
RE-2X(St)H 14C1.0	14x1x1.0	0.55	1.1	13.0	243
RE-2X(St)H 16C1.0	16x1x1.0	0.55	1.1	13.7	280
RE-2X(St)H 20C1.0	20x1x1.0	0.55	1.1	15.2	336
RE-2X(St)H 24C1.0	24x1x1.0	0.55	1.2	17.0	414
RE-2X(St)H 27C1.0	27x1x1.0	0.55	1.2	17.4	443
RE-2X(St)H 30C1.0	30x1x1.0	0.55	1.2	18.0	484
RE-2X(St)H 37C1.0	37x1x1.0	0.55	1.2	19.6	590
RE-2X(St)H 40C1.0	40x1x1.0	0.55	1.3	20.4	631
1.3mm ² , Multicore					
RE-2X(St)H 2C1.3	2x1x1.3	0.6	0.9	7.4	69
RE-2X(St)H 3C1.3	3x1x1.3	0.6	0.9	7.9	83
RE-2X(St)H 4C1.3	4x1x1.3	0.6	0.9	8.5	105
RE-2X(St)H 5C1.3	5x1x1.3	0.6	1.0	9.5	135
RE-2X(St)H 8C1.3	8x1x1.3	0.6	1.0	11.2	186
RE-2X(St)H 10C1.3	10x1x1.3	0.6	1.1	13.2	228

RE-2X(St)H 12C1.3	12x1x1.3	0.6	1.1	13.6	269
RE-2X(St)H 14C1.3	14x1x1.3	0.6	1.1	14.3	305
RE-2X(St)H 16C1.3	16x1x1.3	0.6	1.1	15.0	351
RE-2X(St)H 20C1.3	20x1x1.3	0.6	1.2	16.9	423
RE-2X(St)H 24C1.3	24x1x1.3	0.6	1.2	18.7	507
RE-2X(St)H 27C1.3	27x1x1.3	0.6	1.3	19.3	558
RE-2X(St)H 30C1.3	30x1x1.3	0.6	1.3	20.0	611
RE-2X(St)H 37C1.3	37x1x1.3	0.6	1.3	21.6	743
RE-2X(St)H 40C1.3	40x1x1.3	0.6	1.4	22.7	796
1.5mm ² , Multicore					
RE-2X(St)H 2C1.5	2x1x1.5	0.6	0.9	7.7	78
RE-2X(St)H 3C1.5	3x1x1.5	0.6	0.9	8.1	98
RE-2X(St)H 4C1.5	4x1x1.5	0.6	0.9	8.8	120
RE-2X(St)H 5C1.5	5x1x1.5	0.6	1.0	9.8	153
RE-2X(St)H 8C1.5	8x1x1.5	0.6	1.0	11.6	218
RE-2X(St)H 10C1.5	10x1x1.5	0.6	1.1	13.7	268
RE-2X(St)H 12C1.5	12x1x1.5	0.6	1.1	14.1	315
RE-2X(St)H 14C1.5	14x1x1.5	0.6	1.1	14.8	341
RE-2X(St)H 16C1.5	16x1x1.5	0.6	1.1	15.6	392
RE-2X(St)H 20C1.5	20x1x1.5	0.6	1.2	17.6	484
RE-2X(St)H 24C1.5	24x1x1.5	0.6	1.3	19.6	579
RE-2X(St)H 27C1.5	27x1x1.5	0.6	1.3	20.1	626
RE-2X(St)H 30C1.5	30x1x1.5	0.6	1.3	20.8	685
RE-2X(St)H 37C1.5	37x1x1.5	0.6	1.4	22.6	834
RE-2X(St)H 40C1.5	40x1x1.5	0.6	1.4	23.6	898
2.5mm ² , Multicore					
RE-2X(St)H 2C2.5	2x1x2.5	0.7	0.9	8.9	111
RE-2X(St)H 3C2.5	3x1x2.5	0.7	1.0	9.7	132
RE-2X(St)H 4C2.5	4x1x2.5	0.7	1.0	10.5	169
RE-2X(St)H 5C2.5	5x1x2.5	0.7	1.0	11.9	209
RE-2X(St)H 8C2.5	8x1x2.5	0.7	1.1	13.9	321
RE-2X(St)H 10C2.5	10x1x2.5	0.7	1.2	16.3	386
RE-2X(St)H 12C2.5	12x1x2.5	0.7	1.2	16.9	447
RE-2X(St)H 14C2.5	14x1x2.5	0.7	1.2	17.7	509
RE-2X(St)H 16C2.5	16x1x2.5	0.7	1.3	18.9	585
RE-2X(St)H 20C2.5	20x1x2.5	0.7	1.3	21.1	712
RE-2X(St)H 24C2.5	24x1x2.5	0.7	1.4	23.6	855
RE-2X(St)H 27C2.5	27x1x2.5	0.7	1.4	24.1	956

RE-2X(St)H 30C2.5	30x1x2.5	0.7	1.5	25.2	1049
RE-2X(St)H 37C2.5	37x1x2.5	0.7	1.5	27.2	1277
RE-2X(St)H 40C2.5	40x1x2.5	0.7	1.6	28.5	1370

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	36.7	25.0	18.5	14.2	12.3	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				