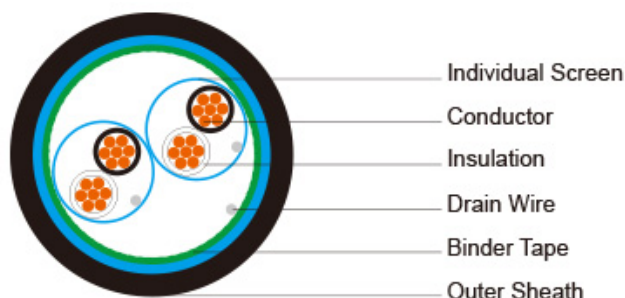


XLPE Insulated, LSZH Sheathed, Individual and Overall Screened Instrumentation Cables (Multipair)



RE-2X(St)H Pimf 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. The armoured LSZH sheathed cables are generally used when the risk of mechanical damage is increased. The galvanized steel wire armour provides excellent protection. 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Note: Asterisk * denotes superseded standard, ** denotes Test temperature +60°C, duration 4h.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

300V

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.
Pairs:	Two insulated conductors uniformly twisted together with a lay not exceeding 100mm
Individual Screen:	Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm ²
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):	-5°C – +50°C
Minimum Bending Radius:	7.5 X Overall Diameter

CONSTRUCTION PARAMETERS

Cable Code	RE-2X(St)H PiMF				
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm2	mm	mm	mm	kg/km
0.5mm ² , Multipair					
RE-2X(St)H PiMF 2P0.5	2x2x0.5	0.35	0.9	8.7	85
RE-2X(St)H PiMF 4P0.5	3x2x0.5	0.35	1.0	10.2	120
RE-2X(St)H PiMF 5P0.5	4x2x0.5	0.35	1.0	11.2	145
RE-2X(St)H PiMF 6P0.5	5x2x0.5	0.35	1.0	12.1	170
RE-2X(St)H PiMF 8P0.5	8x2x0.5	0.35	1.1	13.1	214
RE-2X(St)H PiMF 10P0.5	10x2x0.5	0.35	1.2	15.1	265

RE-2X(St)H PiMF 12P0.5	12x2x0.5	0.35	1.2	15.7	286
RE-2X(St)H PiMF 16P0.5	16x2x0.5	0.35	1.2	17.8	380
RE-2X(St)H PiMF 20P0.5	20x2x0.5	0.35	1.3	19.7	475
RE-2X(St)H PiMF 24P0.5	24x2x0.5	0.35	1.4	21.5	561
0.75mm ² , Multipair					
RE-2X(St)H PiMF 2P0.75	2x2x0.75	0.38	1.0	9.7	101
RE-2X(St)H PiMF 4P0.75	3x2x0.75	0.38	1.0	11.2	159
RE-2X(St)H PiMF 5P0.75	4x2x0.75	0.38	1.1	12.5	183
RE-2X(St)H PiMF 6P0.75	5x2x0.75	0.38	1.1	13.6	215
RE-2X(St)H PiMF 8P0.75	8x2x0.75	0.38	1.1	14.4	272
RE-2X(St)H PiMF 10P0.75	10x2x0.75	0.38	1.2	16.6	333
RE-2X(St)H PiMF 12P0.75	12x2x0.75	0.38	1.2	17.4	383
RE-2X(St)H PiMF 16P0.75	16x2x0.75	0.38	1.3	19.8	492
RE-2X(St)H PiMF 20P0.75	20x2x0.75	0.38	1.4	22.0	603
RE-2X(St)H PiMF 24P0.75	24x2x0.75	0.38	1.5	24.0	704
1.0mm ² , Multipair					
RE-2X(St)H PiMF 2P1.0	2x2x1.0	0.4	1.0	10.4	112
RE-2X(St)H PiMF 4P1.0	3x2x1.0	0.4	1.0	12.1	179
RE-2X(St)H PiMF 5P1.0	4x2x1.0	0.4	1.1	13.5	220
RE-2X(St)H PiMF 6P1.0	5x2x1.0	0.4	1.1	14.7	256
RE-2X(St)H PiMF 8P1.0	8x2x1.0	0.4	1.2	15.8	323
RE-2X(St)H PiMF 10P1.0	10x2x1.0	0.4	1.2	18.0	401
RE-2X(St)H PiMF 12P1.0	12x2x1.0	0.4	1.3	19.0	454
RE-2X(St)H PiMF 16P1.0	16x2x1.0	0.4	1.3	21.5	601
RE-2X(St)H PiMF 20P1.0	20x2x1.0	0.4	1.4	23.9	719
RE-2X(St)H PiMF 24P1.0	24x2x1.0	0.4	1.5	26.1	884
1.3mm ² , Multipair					
RE-2X(St)H PiMF 2P1.3	2x2x1.3	0.45	1.0	11.4	153
RE-2X(St)H PiMF 4P1.3	3x2x1.3	0.45	1.1	13.4	208
RE-2X(St)H PiMF 5P1.3	4x2x1.3	0.45	1.1	14.8	263
RE-2X(St)H PiMF 6P1.3	5x2x1.3	0.45	1.2	16.3	318
RE-2X(St)H PiMF 8P1.3	8x2x1.3	0.45	1.3	17.6	406
RE-2X(St)H PiMF 10P1.3	10x2x1.3	0.45	1.3	20.0	501
RE-2X(St)H PiMF 12P1.3	12x2x1.3	0.45	1.4	21.1	552
RE-2X(St)H PiMF 16P1.3	16x2x1.3	0.45	1.5	24.1	728
RE-2X(St)H PiMF 20P1.3	20x2x1.3	0.45	1.6	26.8	892
RE-2X(St)H PiMF 24P1.3	24x2x1.3	0.45	1.7	29.2	1067
1.5mm ² , Multipair					

RE-2X(St)H PiMF 2P1.5	2x2x1.5	0.45	1.0	11.8	164
RE-2X(St)H PiMF 4P1.5	3x2x1.5	0.45	1.1	13.9	235
RE-2X(St)H PiMF 5P1.5	4x2x1.5	0.45	1.2	15.5	289
RE-2X(St)H PiMF 6P1.5	5x2x1.5	0.45	1.2	16.9	366
RE-2X(St)H PiMF 8P1.5	8x2x1.5	0.45	1.3	18.2	446
RE-2X(St)H PiMF 10P1.5	10x2x1.5	0.45	1.4	21.0	565
RE-2X(St)H PiMF 12P1.5	12x2x1.5	0.45	1.4	21.9	637
RE-2X(St)H PiMF 16P1.5	16x2x1.5	0.45	1.5	25.1	828
RE-2X(St)H PiMF 20P1.5	20x2x1.5	0.45	1.6	27.8	1024
RE-2X(St)H PiMF 24P1.5	24x2x1.5	0.45	1.7	30.4	1219

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				
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			