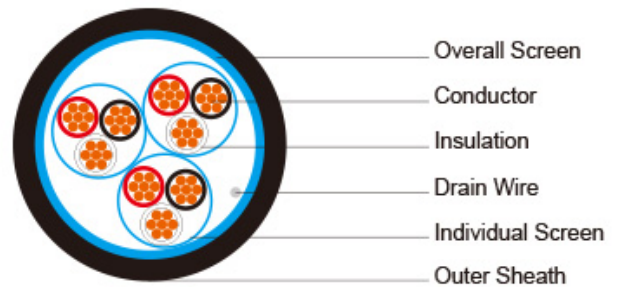


XLPE Insulated, LSZH Sheathed, Individual & Overall Screened Instrumentation Cables



RE-2X(St)H-TIMF 90°C / 300 V

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Note: Asterisk * denotes superseded standard, ** denotes Test temperature +60°C, duration 4h.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

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.

Individual Screen:	Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm ²
Triple:	Three conductors twisted to form a triple
**TiMF Construction:	Polyester tape above the triple, AL-PES tape over solid tinned copper drain wire, 0,60 mm
Lay-up:	TiMF laid up in layers of optimum pitch
Separator:	Polyester tape
Overall Screen:	Aluminium/polyester tape 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 / Red, continuously numbered on white core(1, 2..)for multitruples.
Outer Sheath:	Black or blue for intrinsically safe systems
Physical AND THERMAL PROPERTIES	
Temperature Range During Operation (Fixed State):	-30°C – +70°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-TiMF				
	No. of Triples x3xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x3xmm ²	mm	mm	mm	kg/km
0.5mm ² , Multi-stripe					
RE-2X(St)H-TiMF 2T0.5	2x3x0.5	0.35	1.0	9.7	104
RE-2X(St)H-TiMF 4T0.5	4x3x0.5	0.35	1.0	11.1	151
RE-2X(St)H-TiMF 5T0.5	5x3x0.5	0.35	1.1	12.4	183

RE-2X(St)H-TiMF 6T0.5	6x3x0.5	0.35	1.1	14.0	225
RE-2X(St)H-TiMF 8T0.5	8x3x0.5	0.35	1.1	14.9	283
RE-2X(St)H-TiMF 10T0.5	10x3x0.5	0.35	1.2	17.0	348
RE-2X(St)H-TiMF 12T0.5	12x3x0.5	0.35	1.2	17.6	385
RE-2X(St)H-TiMF 16T0.5	16x3x0.5	0.35	1.3	20.1	504
RE-2X(St)H-TiMF 20T0.5	20x3x0.5	0.35	1.4	22.3	616
RE-2X(St)H-TiMF 24T0.5	24x3x0.5	0.35	1.5	24.4	749
0.75mm ² , Multi-stripe					
RE-2X(St)H-TiMF 2T0.75	2x3x0.75	0.38	1.0	10.6	121
RE-2X(St)H-TiMF 4T0.75	4x3x0.75	0.38	1.1	12.4	186
RE-2X(St)H-TiMF 5T0.75	5x3x0.75	0.38	1.1	13.7	242
RE-2X(St)H-TiMF 6T0.75	6x3x0.75	0.38	1.1	15.4	280
RE-2X(St)H-TiMF 8T0.75	8x3x0.75	0.38	1.2	16.7	362
RE-2X(St)H-TiMF 10T0.75	10x3x0.75	0.38	1.3	19.0	446
RE-2X(St)H-TiMF 12T0.75	12x3x0.75	0.38	1.3	19.7	495
RE-2X(St)H-TiMF 16T0.75	16x3x0.75	0.38	1.4	22.5	652
RE-2X(St)H-TiMF 20T0.75	20x3x0.75	0.38	1.5	24.9	833
RE-2X(St)H-TiMF 24T0.75	20x3x0.75	0.38	1.6	27.2	966
1.0mm ² , Multi-stripe					
RE-2X(St)H-TiMF 2T1.0	2x3x1	0.4	1.0	11.5	154
RE-2X(St)H-TiMF 4T1.0	4x3x1	0.4	1.1	13.4	227

RE-2X(St)H-TiMF 5T1.0	5x3x1	0.4	1.1	14.8	286
RE-2X(St)H-TiMF 6T1.0	6x3x1	0.4	1.2	16.9	348
RE-2X(St)H-TiMF 8T1.0	8x3x1	0.4	1.2	18.1	443
RE-2X(St)H-TiMF 10T1.0	10x3x1	0.4	1.3	20.7	545
RE-2X(St)H-TiMF 12T1.0	12x3x1	0.4	1.3	21.4	621
RE-2X(St)H-TiMF 16T1.0	16x3x1	0.4	1.4	24.4	836
RE-2X(St)H-TiMF 20T1.0	20x3x1	0.4	1.5	27.1	1001
RE-2X(St)H-TiMF 24T1.0	24x3x1	0.4	1.6	29.6	1207
1.3mm ² , Multi-stripe					
RE-2X(St)H-TiMF 2T1.3	2x3x1,3	0.45	1.1	12.8	185
RE-2X(St)H-TiMF 4T1.3	4x3x1,3	0.45	1.1	14.7	283
RE-2X(St)H-TiMF 5T1.3	5x3x1,3	0.45	1.2	16.5	357
RE-2X(St)H-TiMF 6T1.3	6x3x1,3	0.45	1.3	18.8	425
RE-2X(St)H-TiMF 8T1.3	8x3x1,3	0.45	1.3	20.1	553
RE-2X(St)H-TiMF 10T1.3	10x3x1,3	0.45	1.4	23.0	682
RE-2X(St)H-TiMF 12T1.3	12x3x1,3	0.45	1.5	24.0	767
RE-2X(St)H-TiMF 16T1.3	16x3x1,3	0.45	1.6	27.4	1022
RE-2X(St)H-TiMF 20T1.3	20x3x1,3	0.45	1.7	30.4	1252
RE-2X(St)H-TiMF 24T1.3	24x3x1,3	0.45	1.8	33.1	1511
1.5mm ² , Multi-stripe					
RE-2X(St)H-TiMF 2T1.5	2x3x1,5	0.45	1.1	13.2	207

RE-2X(St)H-TiMF 4T1.5	4x3x1,5	0.45	1.2	15.4	314
RE-2X(St)H-TiMF 5T1.5	5x3x1,5	0.45	1.2	17.1	396
RE-2X(St)H-TiMF 6T1.5	6x3x1,5	0.45	1.3	19.5	482
RE-2X(St)H-TiMF 8T1.5	8x3x1,5	0.45	1.4	21.1	617
RE-2X(St)H-TiMF 10T1.5	10x3x1,5	0.45	1.5	24.1	765
RE-2X(St)H-TiMF 12T1.5	12x3x1,5	0.45	1.5	24.9	867
RE-2X(St)H-TiMF 16T1.5	16x3x1,5	0.45	1.6	28.4	1140
RE-2X(St)H-TiMF 20T1.5	20x3x1,5	0.45	1.7	31.6	1421
RE-2X(St)H-TiMF 24T1.5	24x3x1,5	0.45	1.8	34.4	1691

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	0.35	0.38	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				
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			