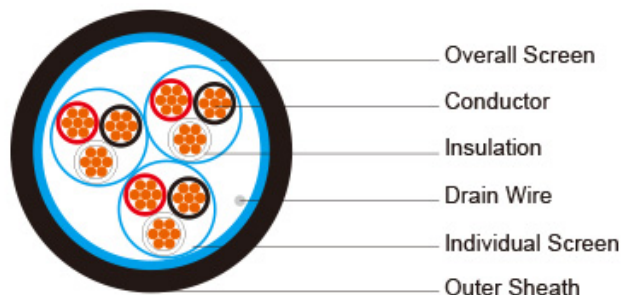


PE Insulated, LSZH Sheathed, Individual & Overall Screened Instrumentation Cables (Multitriples)



RE-2Y(St)H-TIMF 70°C / 300 V

STANDARDS

Basic design to EN50288-7

APPLICATION:

These cables are used for transmission of analogue and digital signals in instrument and control systems at chemistry and petr^o Chemistry industry plants, power plants, natural gas and petroluem plants, etc...

These cables are used in the environments which have no corrosive gases are emitted in the event of fire. In case of fire, these cables inhibit the propagation of the flames whereby the development of smoke is extremely low. Instrumentation cables are not allowed for direct connection to a low impedance sources, e.g. public mains electricity supply.

With blue sheath it is suitable for intrinsically safe systems. These cables are not recommended for direct burial. They are for indoor and outdoor installation, in dry and wet l^oCations; on racks, trays, in conduits.

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Note: Asterisk * denotes superseded standard, **Test temperature +60°C, duration 4h.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 tensite 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.
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-2Y(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 , Multitriple					
RE-2Y(St)H-TiMF 2T0.5	2x3x0.5	0.35	1.0	9.7	104

RE-2Y(St)H-TiMF 4T0.5	4x3x0.5	0.35	1.0	11.1	156
RE-2Y(St)H-TiMF 5T0.5	5x3x0.5	0.35	1.1	12.4	183
RE-2Y(St)H-TiMF 6T0.5	6x3x0.5	0.35	1.1	14.0	236
RE-2Y(St)H-TiMF 8T0.5	8x3x0.5	0.35	1.1	14.9	288
RE-2Y(St)H-TiMF 10T0.5	10x3x0.5	0.35	1.2	17.0	350
RE-2Y(St)H-TiMF 12T0.5	12x3x0.5	0.35	1.2	17.6	386
RE-2Y(St)H-TiMF 16T0.5	16x3x0.5	0.35	1.3	20.1	506
RE-2Y(St)H-TiMF 20T0.5	20x3x0.5	0.35	1.4	22.3	619
RE-2Y(St)H-TiMF 24T0.5	24x3x0.5	0.35	1.5	24.4	752
0.75mm ² , Multitriples					
RE-2Y(St)H-TiMF 2T0.75	2x3x0.75	0.38	1.0	10.6	125
RE-2Y(St)H-TiMF 4T0.75	4x3x0.75	0.38	1.1	12.4	187
RE-2Y(St)H-TiMF 5T0.75	5x3x0.75	0.38	1.1	13.7	238
RE-2Y(St)H-TiMF 6T0.75	6x3x0.75	0.38	1.1	15.4	281
RE-2Y(St)H-TiMF 8T0.75	8x3x0.75	0.38	1.2	16.7	364
RE-2Y(St)H-TiMF 10T0.75	10x3x0.75	0.38	1.3	19.0	448
RE-2Y(St)H-TiMF 12T0.75	12x3x0.75	0.38	1.3	19.7	497
RE-2Y(St)H-TiMF 16T0.75	16x3x0.75	0.38	1.4	22.5	655
RE-2Y(St)H-TiMF 20T0.75	20x3x0.75	0.38	1.5	24.9	802
RE-2Y(St)H-TiMF 24T0.75	24x3x0.75	0.38	1.6	27.2	970
1.0mm ² , Multitriples					
RE-2Y(St)H-TiMF 2T1.0	2x3x1	0.4	1.0	11.5	154
RE-2Y(St)H-TiMF 4T1.0	4x3x1	0.4	1.1	13.4	228
RE-2Y(St)H-TiMF 5T1.0	5x3x1	0.4	1.1	14.8	287
RE-2Y(St)H-TiMF 6T1.0	6x3x1	0.4	1.2	16.9	350
RE-2Y(St)H-TiMF 8T1.0	8x3x1	0.4	1.2	18.1	445
RE-2Y(St)H-TiMF 10T1.0	10x3x1	0.4	1.3	20.7	547
RE-2Y(St)H-TiMF 12T1.0	12x3x1	0.4	1.3	21.4	624
RE-2Y(St)H-TiMF 16T1.0	16x3x1	0.4	1.4	24.4	822
RE-2Y(St)H-TiMF 20T1.0	20x3x1	0.4	1.5	27.1	1005
RE-2Y(St)H-TiMF 24T1.0	24x3x1	0.4	1.6	29.6	1212
1.3mm ² , Multitriples					
RE-2Y(St)H-TiMF 2T1.3	2x3x1,3	0.45	1.1	12.8	186
RE-2Y(St)H-TiMF 4T1.3	4x3x1,3	0.45	1.1	14.7	284
RE-2Y(St)H-TiMF 5T1.3	5x3x1,3	0.45	1.2	16.5	358
RE-2Y(St)H-TiMF 6T1.3	6x3x1,3	0.45	1.3	18.8	427
RE-2Y(St)H-TiMF 8T1.3	8x3x1,3	0.45	1.3	20.1	551
RE-2Y(St)H-TiMF 10T1.3	10x3x1,3	0.45	1.4	23.0	684

RE-2Y(St)H-TiMF 12T1.3	12x3x1,3	0.45	1.5	24.0	769
RE-2Y(St)H-TiMF 16T1.3	16x3x1,3	0.45	1.6	27.4	1025
RE-2Y(St)H-TiMF 20T1.3	20x3x1,3	0.45	1.7	30.4	1256
RE-2Y(St)H-TiMF 24T1.3	24x3x1,3	0.45	1.8	33.1	1516
1.5mm ² , Multitripole					
RE-2Y(St)H-TiMF 2T1.5	2x3x1,5	0.45	1.1	13.2	199
RE-2Y(St)H-TiMF 4T1.5	4x3x1,5	0.45	1.2	15.4	322
RE-2Y(St)H-TiMF 5T1.5	5x3x1,5	0.45	1.2	17.1	397
RE-2Y(St)H-TiMF 6T1.5	6x3x1,5	0.45	1.3	19.5	484
RE-2Y(St)H-TiMF 8T1.5	8x3x1,5	0.45	1.4	21.1	616
RE-2Y(St)H-TiMF 10T1.5	10x3x1,5	0.45	1.5	24.1	768
RE-2Y(St)H-TiMF 12T1.5	12x3x1,5	0.45	1.5	24.9	870
RE-2Y(St)H-TiMF 16T1.5	16x3x1,5	0.45	1.6	28.4	1144
RE-2Y(St)H-TiMF 20T1.5	20x3x1,5	0.45	1.7	31.6	1404
RE-2Y(St)H-TiMF 24T1.5	24x3x1,5	0.45	1.8	34.4	1698

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	1	1	1	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			