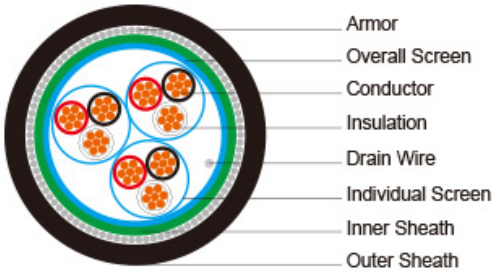
PE Insulated, LSZH Sheathed, Individual & Overall Screened, Armoured Instrumentation Cables (Multitriple)



RE-2Y(St)HSWAH-TiMF 70°C / 300 V

STANDARDS	Basic design to EN50288-7
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Note: Asterisk * denotes superseded standard, **Test temperature +60°C, duration 4h.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, 0.5mm²

Pair:	Two conductors twisted to form a pair
Lay-up:	Pairs laid up in layers of optimum pitch
Separator:	Polyester tape
Overall Screen:	Aluminium/polyester tape with tinned copper drain wire, 0.5mm2
Inner sheath:	HFFR compound, EN 50290-2-27
Armour:	Galvenized round steel wire, EN 10257-1
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 multitriples.
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:	10 X Overall Diameter

CONSTRUCTION PARAMETERS

Cable Code	RE-2Y(St)HSWAH-TiMF							
	No. of Triples 3xCross Section	Nominal Insulation Thick-ness	Nominal Inner Sheath Thick-ness	Nominal Overall Diameter Over Inner Sheath	Nominal Armour Wire Diameter	Nominal Outer Sheath Thick-ness	Nominal OverallDiameter	Approx. Weight
	No.x3xmm2	mm	mm	mm	mm	mm	mm	kg/km
0.5mm2, Multitriple								

RE-2Y(St)HSWAH-TiMF 2T0.5	2x3x0.5	0.35	1.0	9.7	0.9	1.4	14.3	363
RE-2Y(St)HSWAH-TiMF 4T0.5	4x3x0.5	0.35	1.0	11.1	0.9	1.4	15.7	456
RE-2Y(St)HSWAH-TiMF 5T0.5	5x3x0.5	0.35	1.1	12.4	0.9	1.5	17.2	517
RE-2Y(St)HSWAH-TiMF 6T0.5	6x3x0.5	0.35	1.1	14.0	0.9	1.5	18.8	612
RE-2Y(St)HSWAH-TiMF 8T0.5	8x3x0.5	0.35	1.1	14.9	0.9	1.5	19.7	800
RE-2Y(St)HSWAH-TiMF 10T0.5	10x3x0.5	0.35	1.2	17.0	1.25	1.6	22.7	951
RE-2Y(St)HSWAH-TiMF 12T0.5	12x3x0.5	0.35	1.2	17.6	1.25	1.6	23.3	978
RE-2Y(St)HSWAH-TiMF 16T0.5	16x3x0.5	0.35	1.3	20.1	1.25	1.7	26.0	1201
RE-2Y(St)HSWAH-TiMF 20T0.5	20x3x0.5	0.35	1.4	22.3	1.25	1.7	28.2	1394
RE-2Y(St)HSWAH-TiMF 24T0.5	24x3x0.5	0.35	1.5	24.4	1.25	1.8	30.5	1607
0.75mm2, Multitriple								
RE-2Y(St)HSWAH-TiMF 2T0.75	2x3x0.75	0.38	1.0	10.6	0.9	1.4	15.2	418
RE-2Y(St)HSWAH-TiMF 4T0.75	4x3x0.75	0.38	1.1	12.4	0.9	1.5	17.2	521
RE-2Y(St)HSWAH-TiMF 5T0.75	5x3x0.75	0.38	1.1	13.7	0.9	1.5	18.5	608

RE-2Y(St)HSWAH-TiMF 6T0.75	6x3x0.75	0.38	1.1	15.4	0.9	1.5	20.2	820
RE-2Y(St)HSWAH-TiMF 8T0.75	8x3x0.75	0.38	1.2	16.7	0.9	1.6	21.7	942
RE-2Y(St)HSWAH-TiMF 10T0.75	10x3x0.75	0.38	1.3	19.0	1.25	1.6	24.7	1104
RE-2Y(St)HSWAH-TiMF 12T0.75	12x3x0.75	0.38	1.3	19.7	1.25	1.7	25.6	1178
RE-2Y(St)HSWAH-TiMF 16T0.75	16x3x0.75	0.38	1.4	22.5	1.25	1.7	28.4	1441
RE-2Y(St)HSWAH-TiMF 20T0.75	20x3x0.75	0.38	1.5	24.9	1.25	1.8	31.0	1888
RE-2Y(St)HSWAH-TiMF 24T0.75	24x3x0.75	0.38>	1.6	27.2	1.25	1.9	33.5	2168
1.0mm2, Multitriple								
RE-2Y(St)HSWAH-TiMF 2T1.0	2x3x1	0.4	1.0	11.5	0.9	1.4	16.1	472
RE-2Y(St)HSWAH-TiMF 4T1.0	4x3x1	0.4	1.1	13.4	0.9	1.5	18.2	597
RE-2Y(St)HSWAH-TiMF 5T1.0	5x3x1	0.4	1.1	14.8	0.9	1.5	19.6	689
RE-2Y(St)HSWAH-TiMF 6T1.0	6x3x1	0.4	1.2	16.9	0.9	1.5	21.7	940
RE-2Y(St)HSWAH-TiMF 8T1.0	8x3x1	0.4	1.2	18.1	1.25	1.6	23.8	1035
RE-2Y(St)HSWAH-TiMF 10T1.0	10x3x1	0.4	1.3	20.7	1.25	1.7	26.6	1279

RE-2Y(St)HSWAH-TiMF 12T1.0	12x3x1	0.4	1.3	21.4	1.25	1.7	27.3	1383
RE-2Y(St)HSWAH-TiMF 16T1.0	16x3x1	0.4	1.4	24.4	1.25	1.7	30.3	1689
RE-2Y(St)HSWAH-TiMF 20T1.0	20x3x1	0.4	1.5	27.1	1.25	1.8	33.2	2204
RE-2Y(St)HSWAH-TiMF 24T1.0	24x3x1	0.4	1.6	29.6	1.6	1.9	36.6	2509
1.3mm2, Multitriple								
RE-2Y(St)HSWAH-TiMF 2T1.3	2x3x1,3	0.45	1.1	12.8	0.9	1.5	17.6	532
RE-2Y(St)HSWAH-TiMF 4T1.3	4x3x1,3	0.45	1.1	14.7	0.9	1.5	19.5	685
RE-2Y(St)HSWAH-TiMF 5T1.3	5x3x1,3	0.45	1.2	16.5	0.9	1.6	21.5	925
RE-2Y(St)HSWAH-TiMF 6T1.3	6x3x1,3	0.45	1.3	18.8	1.25	1.6	24.5	1090
RE-2Y(St)HSWAH-TiMF 8T1.3	8x3x1,3	0.45	1.3	20.1	1.25	1.7	26.0	1250
RE-2Y(St)HSWAH-TiMF 10T1.3	10x3x1,3	0.45	1.4	23.0	1.25	1.8	29.1	1484
RE-2Y(St)HSWAH-TiMF 12T1.3	12x3x1,3	0.45	1.5	24.0	1.25	1.8	30.1	1595
RE-2Y(St)HSWAH-TiMF 16T1.3	16x3x1,3	0.45	1.6	27.4	1.25	1.9	33.7	2225
RE-2Y(St)HSWAH-TiMF 20T1.3	20x3x1,3	0.45	1.7	30.4	1.6	2.0	37.6	2596

RE-2Y(St)HSWAH-TiMF 24T1.3	24x3x1,3	0.45	1.8	33.1	1.6	2.0	40.3	2962
RE-2Y(St)HSWAH-TiMF 2T1.5	2x3x1,5	0.45	1.1	13.2	0.9	1.5	18.0	561
RE-2Y(St)HSWAH-TiMF 4T1.5	4x3x1,5	0.45	1.2	15.4	0.9	1.5	20.2	818
RE-2Y(St)HSWAH-TiMF 5T1.5	5x3x1,5	0.45	1.2	17.1	1.25	1.6	22.8	999
RE-2Y(St)HSWAH-TiMF 6T1.5	6x3x1,5	0.45	1.3	19.5	1.25	1.6	25.2	1164
RE-2Y(St)HSWAH-TiMF 8T1.5	8x3x1,5	0.45	1.4	21.1	1.25	1.7	27.0	1354
RE-2Y(St)HSWAH-TiMF 10T1.5	10x3x1,5	0.45	1.5	24.1	1.25	1.8	30.2	1596
RE-2Y(St)HSWAH-TiMF 12T1.5	12x3x1,5	0.45	1.5	24.9	1.25	1.8	31.0	1953
RE-2Y(St)HSWAH-TiMF 16T1.5	16x3x1,5	0.45	1.6	28.4	1.6	1.9	35.4	2388
RE-2Y(St)HSWAH-TiMF 20T1.5	20x3x1,5	0.45	1.7	31.6	1.6	2.0	38.8	2800
RE-2Y(St)HSWAH-TiMF 24T1.5	24x3x1,5	0.45	1.8	34.4	1.6	2.1	41.8	3100

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				
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500				
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				