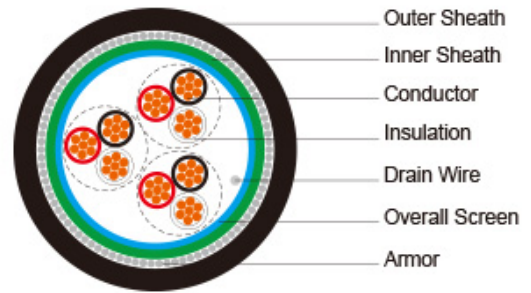


**XLPE Insulated, LSZH Sheathed, Overall Screened
& Armoured Instrumentation Cables (Multitriples)**



RE-2XSt)HSAWAH 70°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Note: Asterisk * denotes superseded standard, ** denotes Test temperature +60°C, duration 4h.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
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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.
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, 0.5mm ²
Inner sheath:	HFFR compound, EN 50290-2-27
Armour:	Galvanized 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 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)HSAWAH							
	No. of Triples x3xCross Section	Nominal Insulation Thickness	Nominal Inner Sheath Thick- -ness	Nominal Overall Diameter Over Inner Sheath	Nominal Armour Wire Diameter	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x3xmm ²	mm	mm	mm	mm	mm	mm	kg/km
	0.5mm ² , Multi-stripe							
RE- 2X(St)HSAWAH 2T0.5	2x3x0.5	0.35	0.9	8.4	0.9	1.4	13.0	326

RE- 2X(St)HSWAH 4T0.5	4x3x0.5	0.35	1.0	9.8	0.9	1.4	14.4	386
RE- 2X(St)HSWAH 5T0.5	5x3x0.5	0.35	1.0	10.8	0.9	1.4	15.4	454
RE- 2X(St)HSWAH 6T0.5	6x3x0.5	0.35	1.0	12.1	0.9	1.4	16.7	513
RE- 2X(St)HSWAH 8T0.5	8x3x0.5	0.35	1.1	13.1	0.9	1.5	17.9	570
RE- 2X(St)HSWAH 10T0.5	10x3x0.5	0.35	1.1	14.7	0.9	1.5	19.5	658
RE- 2X(St)HSWAH 12T0.5	12x3x0.5	0.35	1.1	15.2	0.9	1.5	20.0	844
RE- 2X(St)HSWAH 16T0.5	16x3x0.5	0.35	1.2	17.4	0.9	1.6	22.4	1001
RE- 2X(St)HSWAH 20T0.5	20x3x0.5	0.35	1.2	19.1	1.25	1.6	24.8	1177
RE- 2X(St)HSWAH 24T0.5	24x3x0.5	0.35	1.3	20.9	1.25	1.7	26.8	1327
0.75mm ² , Multi-stripe								
RE- 2X(St)HSWAH 2T0.75	2x3x0.75	0.38	1.0	10.6	0.9	1.4	13.9	369
RE- 2X(St)HSWAH 4T0.75	4x3x0.75	0.38	1.1	12.4	0.9	1.4	15.5	462
RE- 2X(St)HSWAH 5T0.75	5x3x0.75	0.38	1.1	13.7	0.9	1.4	16.6	526
RE- 2X(St)HSWAH 6T0.75	6x3x0.75	0.38	1.1	15.4	0.9	1.5	18.5	614

RE- 2X(St)HSWAH 8T0.75	8x3x0.75	0.38	1.2	16.7	0.9	1.5	19.5	697
RE- 2X(St)HSWAH 10T0.75	10x3x0.75	0.38	1.3	19.0	0.9	1.5	21.5	918
RE- 2X(St)HSWAH 12T0.75	12x3x0.75	0.38	1.3	19.7	0.9	1.7	22.3	1027
RE- 2X(St)HSWAH 16T0.75	16x3x0.75	0.38	1.4	22.5	1.25	1.6	25.4	1237
RE- 2X(St)HSWAH 20T0.75	20x3x0.75	0.38	1.5	24.9	1.25	1.7	27.6	1443
RE- 2X(St)HSWAH 24T0.75	24x3x0.75	0.38	1.6	27.2	1.25	1.7	29.6	1628
1.0mm2, Multi-stripe								
RE- 2X(St)HSWAH 2T1.0	2x3x1	0.4	1.0	11.5	0.9	1.4	15.0	403
RE- 2X(St)HSWAH 4T1.0	4x3x1	0.4	1.1	13.4	0.9	1.4	16.5	528
RE- 2X(St)HSWAH 5T1.0	5x3x1	0.4	1.1	14.8	0.9	1.5	18.0	619
RE- 2X(St)HSWAH 6T1.0	6x3x1	0.4	1.2	16.9	0.9	1.5	19.8	829
RE- 2X(St)HSWAH 8T1.0	8x3x1	0.4	1.2	18.1	0.9	1.5	20.9	945
RE- 2X(St)HSWAH 10T1.0	10x3x1	0.4	1.3	20.7	0.9	1.6	24.1	1074
RE- 2X(St)HSWAH 12T1.0	12x3x1	0.4	1.3	21.4	1.25	1.6	24.7	1212

RE- 2X(St)HSWAH 16T1.0	16x3x1	0.4	1.4	24.4	1.25	1.7	27.6	1478
RE- 2X(St)HSWAH 20T1.0	20x3x1	0.4	1.5	27.1	1.25	1.7	30.0	1736
RE- 2X(St)HSWAH 24T1.0	24x3x1	0.4	1.6	29.6	1.25	1.8	32.2	2197
1.3mm2, Multi-stripe								
RE- 2X(St)HSWAH 2T1.3	2x3x1,3	0.45	1.1	12.8	0.9	1.4	16.1	488
RE- 2X(St)HSWAH 4T1.3	4x3x1,3	0.45	1.1	14.7	0.9	1.5	18.2	620
RE- 2X(St)HSWAH 5T1.3	5x3x1,3	0.45	1.2	16.5	0.9	1.5	19.6	720
RE- 2X(St)HSWAH 6T1.3	6x3x1,3	0.45	1.3	18.8	0.9	1.5	21.7	952
RE- 2X(St)HSWAH 8T1.3	8x3x1,3	0.45	1.3	20.1	0.9	1.6	23.8	1076
RE- 2X(St)HSWAH 10T1.3	10x3x1,3	0.45	1.4	23.0	1.25	1.7	26.6	1320
RE- 2X(St)HSWAH 12T1.3	12x3x1,3	0.45	1.5	24.0	1.25	1.7	27.3	1454
RE- 2X(St)HSWAH 16T1.3	16x3x1,3	0.45	1.6	27.4	1.25	1.8	30.5	1785
RE- 2X(St)HSWAH 20T1.3	20x3x1,3	0.45	1.7	30.4	1.25	1.8	33.2	2323
RE- 2X(St)HSWAH 24T1.3	24x3x1,3	0.45	1.8	33.1	1.60	1.9	36.6	2633
1.5mm2, Multi-stripe								

RE- 2X(St)HSWAH 2T1.5	2x3x1,5	0.45	1.1	13.2	0.9	1.4	16.5	491
RE- 2X(St)HSWAH 4T1.5	4x3x1,5	0.45	1.2	15.4	0.9	1.5	18.8	673
RE- 2X(St)HSWAH 5T1.5	5x3x1,5	0.45	1.2	17.1	0.9	1.5	20.2	894
RE- 2X(St)HSWAH 6T1.5	6x3x1,5	0.45	1.3	19.5	0.9	1.6	22.6	1021
RE- 2X(St)HSWAH 8T1.5	8x3x1,5	0.45	1.4	21.1	1.25	1.6	24.8	1208
RE- 2X(St)HSWAH 10T1.5	10x3x1,5	0.45	1.5	24.1	1.25	1.7	27.5	1433
RE- 2X(St)HSWAH 12T1.5	12x3x1,5	0.45	1.5	24.9	1.25	1.7	28.4	1565
RE- 2X(St)HSWAH 16T1.5	16x3x1,5	0.45	1.6	28.4	1.25	1.8	31.8	2157
RE- 2X(St)HSWAH 20T1.5	20x3x1,5	0.45	1.7	31.6	1.25	1.9	34.9	2510
RE- 2X(St)HSWAH 24T1.5	24x3x1,5	0.45	1.8	34.4	1.60	2.0	38.3	2873

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.)					

	≤ 4 pairs	90	90	90	102	102
	all other pairs	75	75	75	85	85
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			