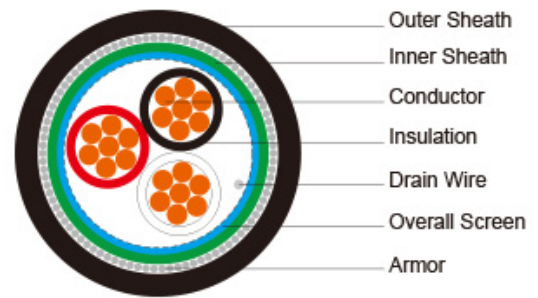


**XLPE Insulated, LSZH Sheathed, Overall Screened  
& Armoured Instrumentation Cables (Single Triple)**



RE-2X(St)HSWAH 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Note: Asterisk \* denotes superseded standard, \*\* denotes Test temperature +60°C, duration 4h.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

**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

<b>Lay-up:</b>	Pairs laid up in layers of optimum pitch
<b>Separator:</b>	Polyester tape
<b>Overall Screen:</b>	Aluminium/polyester tape with tinned copper drain wire, 0.5mm <sup>2</sup>
<b>Inner sheath:</b>	HFFR compound, EN 50290-2-27
<b>Armour:</b>	Galvanized round steel wire, EN 10257-1
<b>Outer Sheath:</b>	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**

<b>Insulation:</b>	Black / White / Red, continuously numbered on white core(1, 2..)for multitruples.
<b>Outer Sheath:</b>	Black or blue for intrinsically safe systems

**Physical AND THERMAL PROPERTIES**

<b>Temperature Range During Operation (Fixed State):</b>	-30°C – +70°C
<b>Temperature Range During Installation (Mobile State):</b>	-5°C – +50°C
<b>Minimum Bending Radius:</b>	7.5 X Overall Diameter

**CONSTRUCTION PARAMETERS**

Cable Code	RE-2X(St)HSAWAH							
	No. of Triples x3xCross 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 Overall Diameter	Approx. Weight
	No.x3xmm <sup>2</sup>	mm	mm	mm	mm	mm	mm	kg/km
RE- 2X(St)HSAWAH 1T0.5	1x3x0.50	0.35	0.8	5.4	0.9	1.3	9.8	200
RE- 2X(St)HSAWAH 1T0.75	1x3x0.75	0.38	0.9	6.1	0.9	1.3	10.5	220

RE- 2X(St)HSWAH 1T1.0	1x3x1.0	0.4	0.9	6.6	0.9	1.3	11.0	244
RE- 2X(St)HSWAH 1T1.3	1x3x1.3	0.45	0.9	7.2	0.9	1.3	11.6	268
RE- 2X(St)HSWAH 1T1.5	1x3x1.5	0.45	0.9	7.5	0.9	1.3	11.9	293

Note : Other conductor sizes & core configurations are available upon request.

**Electrical PROPERTIES**

<b>Conductor Area Size</b>	mm <sup>2</sup>	0.5	0.75	1.0	1.3	1.5
<b>Insulation thickness (nominal)</b>	mm	0.35	0.38	0.4	0.45	0.45
<b>Conductor resistance (20°C)</b>	Ω/km	36.7	25	18.5	14.2	12.3
<b>Insulation resistance (20°C)</b>	MΩ.km(Min.)	5000				
<b>Mutual Capacitance (1 kHz)</b>	pF/m(Max.)	115				
<b>Capacitance unbalance(1 kHz)</b>	pF/500 m (Max.)	500				
<b>Inductance</b>	mH/km(Max.)	1				
<b>L / R (ratio) (max.)</b>	μH/Ω	25	25	25	40	40
<b>Operating voltage Urms</b>	V	300				
<b>Test Voltage</b>	Core to Core	V	1500			
	Core to Screen	V	1500			