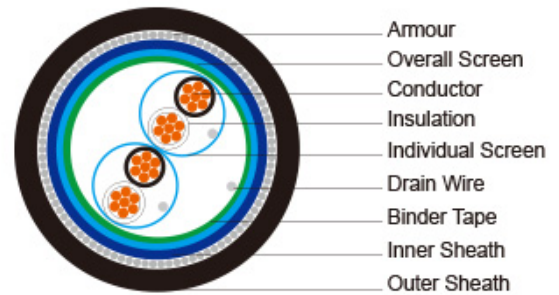


**PE Insulated, LSZH Sheathed, Individual and Overall Screened & Armoured Instrumentation Cables (Multipair)**



RE-2Y(st)HSWAH PIMF 90°C / 300V

<b>STANDARDS</b>	Basic design to EN 50288-7
<b>APPLICATION</b>	Instrument cable minimizes noise and signal interference, delivering clean signals in harsh environments and general manufacturing operations.
<b>FIRE PERFORMANCE</b>	
<b>Flame Retardance (Single Vertical Wire Test)</b>	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*
<b>Reduced Fire Propagation (Vertically-mounted bundled wires &amp; cable test)</b>	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
<b>Halogen Free</b>	IEC 60754-1; EN 50267-2-1; DIN VDE 0482-267-2-1; CEI 20-37/2-1 ; BS 6425-1*
<b>No Corrosive Gas Emission</b>	IEC 60754-2; EN 50267-2-2; DIN VDE 0482-267-2-2; CEI 20-37/2-2 ; BS 6425-2*
<b>Minimum Smoke Emission</b>	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*
<b>No Toxic gases</b>	NES 02-713; NF C 20-454
<b>Sunlight Resistance</b>	UL 1581 section 1200
<b>Oil Resistance</b>	ICEA S-73-532**
Note: Asterisk * denotes superseded standard, **Test temperature +60°C, duration 4h. Retention: min 60% of tensile strength/min.60% of elongation.	
<b>VOLTAGE RATING</b>	300V
<b>CABLE CONSTRUCTION</b>	
<b>Conductor:</b>	Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
<b>Insulation:</b>	PE compound, EN 50290. 2-23.
<b>Pairs:</b>	Two insulated conductors uniformly twisted together with a lay not exceeding 100mm

Individual Screen:	Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm <sup>2</sup>
Binder tape:	PETP transparent tape
Overall Screen:	Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm <sup>2</sup>
Inner Sheath:	LSZH(Low Smoke Zero Halogen) sheath
Amouring:	Galvanized steel wire armour
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, continuously numbered on white core(1, 2..)for multipair.
Outer Sheath:	Black or blue for intrinsically safe systems

**Physical AND THERMAL PROPERTIES**

Temperature Range During Operation (Fixed State):	-30°C – +90°C
Temperature Range During Installation (Mobile State):	-20°C – +50°C

Minimum Bending Radius: 10 X Overall Diameter

**CONSTRUCTION PARAMETERS**

Cable Code	RE-2X(St)HSWAH PiMF							
	No. of Pairsx2 xCross 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.x2xmm2	mm2	mm	mm	mm	mm	mm	kg/km
0.5mm2, Multipair								
RE-2X(St)HSWAH PiMF 2P0.5	2x2x0.5	0.35	0.9	8.7	0.9	1.4	13.3	311
RE-2X(St)HSWAH PiMF 4P0.5	3x2x0.5	0.35	1.0	10.2	0.9	1.4	14.8	374

RE-2X(St)HSWAH PiMF 5P0.5	4x2x0.5	0.35	1.0	11.2	0.9	1.4	15.8	451
RE-2X(St)HSWAH PiMF 6P0.5	5x2x0.5	0.35	1.0	12.1	0.9	1.6	16.9	484
RE-2X(St)HSWAH PiMF 8P0.5	8x2x0.5	0.35	1.1	13.1	0.9	1.6	17.9	563
RE-2X(St)HSWAH PiMF 10P0.5	10x2x0.5	0.35	1.2	15.1	0.9	1.5	19.9	782
RE-2X(St)HSWAH PiMF 12P0.5	12x2x0.5	0.35	1.2	15.7	0.9	1.5	20.5	804
RE-2X(St)HSWAH PiMF 16P0.5	16x2x0.5	0.35	1.2	17.8	1.25	1.6	23.5	970
RE-2X(St)HSWAH PiMF 20P0.5	20x2x0.5	0.35	1.3	19.7	1.25	1.7	25.6	1145
RE-2X(St)HSWAH PiMF 24P0.5	24x2x0.5	0.35	1.4	21.5	1.25	1.7	27.4	1272
0.75mm <sup>2</sup> , Multipair								
RE-2X(St)HSWAH PiMF 2P0.75	2x2x0.75	0.38	1.0	9.7	0.9	1.4	14.3	342
RE-2X(St)HSWAH PiMF 4P0.75	3x2x0.75	0.38	1.0	11.2	0.9	1.4	15.8	439
RE-2X(St)HSWAH PiMF 5P0.75	4x2x0.75	0.38	1.1	12.5	0.9	1.5	17.3	498
RE-2X(St)HSWAH PiMF 6P0.75	5x2x0.75	0.38	1.1	13.6	0.9	1.5	18.4	565
RE-2X(St)HSWAH PiMF 8P0.75	8x2x0.75	0.38	1.1	14.4	0.9	1.5	19.2	639
RE-2X(St)HSWAH PiMF 10P0.75	10x2x0.75	0.38	1.2	16.6	1.25	1.6	22.3	878
RE-2X(St)HSWAH PiMF 12P0.75	12x2x0.75	0.38	1.2	17.4	1.25	1.6	23.1	944
RE-2X(St)HSWAH PiMF 16P0.75	16x2x0.75	0.38	1.3	19.8	1.25	1.7	25.7	1132
RE-2X(St)HSWAH PiMF 20P0.75	20x2x0.75	0.38	1.4	22.0	1.25	1.7	27.9	1329
RE-2X(St)HSWAH PiMF 24P0.75	24x2x0.75	0.38	1.5	24.0	1.25	1.8	30.1	1488
1.0mm <sup>2</sup> , Multipair								
RE-2X(St)HSWAH PiMF 2P1.0	2x2x1.0	0.4	1.0	10.4	0.9	1.4	15.0	377

RE-2X(St)HSAWAH PiMF 4P1.0	3x2x1.0	0.4	1.0	12.1	0.9	1.4	16.7	502
RE-2X(St)HSAWAH PiMF 5P1.0	4x2x1.0	0.4	1.1	13.5	0.9	1.5	18.3	567
RE-2X(St)HSAWAH PiMF 6P1.0	5x2x1.0	0.4	1.1	14.7	0.9	1.5	19.5	658
RE-2X(St)HSAWAH PiMF 8P1.0	8x2x1.0	0.4	1.2	15.8	0.9	1.5	20.6	865
RE-2X(St)HSAWAH PiMF 10P1.0	10x2x1.0	0.4	1.2	18.0	1.25	1.6	23.7	994
RE-2X(St)HSAWAH PiMF 12P1.0	12x2x1.0	0.4	1.3	19.0	1.25	1.7	24.7	1112
RE-2X(St)HSAWAH PiMF 16P1.0	16x2x1.0	0.4	1.3	21.5	1.25	1.7	27.4	1363
RE-2X(St)HSAWAH PiMF 20P1.0	20x2x1.0	0.4	1.4	23.9	1.25	1.7	29.8	1512
RE-2X(St)HSAWAH PiMF 24P1.0	24x2x1.0	0.4	1.5	26.1	1.25	1.8	32.2	1996
1.3mm <sup>2</sup> , Multipair								
RE-2X(St)HSAWAH PiMF 2P1.3	2x2x1.3	0.45	1.0	11.4	0.9	1.4	16.0	452
RE-2X(St)HSAWAH PiMF 4P1.3	3x2x1.3	0.45	1.1	13.4	0.9	1.5	18.2	577
RE-2X(St)HSAWAH PiMF 5P1.3	4x2x1.3	0.45	1.1	14.8	0.9	1.5	19.6	647
RE-2X(St)HSAWAH PiMF 6P1.3	5x2x1.3	0.45	1.2	16.3	0.9	1.6	21.3	858
RE-2X(St)HSAWAH PiMF 8P1.3	8x2x1.3	0.45	1.3	17.6	1.25	1.6	23.3	982
RE-2X(St)HSAWAH PiMF 10P1.3	10x2x1.3	0.45	1.3	20.0	1.25	1.7	25.9	1153
RE-2X(St)HSAWAH PiMF 12P1.3	12x2x1.3	0.45	1.4	21.1	1.25	1.7	27.0	1287
RE-2X(St)HSAWAH PiMF 16P1.3	16x2x1.3	0.45	1.5	24.1	1.25	1.8	30.2	1564
RE-2X(St)HSAWAH PiMF 20P1.3	20x2x1.3	0.45	1.6	26.8	1.25	1.9	33.1	1960
RE-2X(St)HSAWAH PiMF 24P1.3	24x2x1.3	0.45	1.7	29.2	1.25	2.0	36.4	2356
1.5mm <sup>2</sup> , Multipair								

RE-2X(St)HSWAH PiMF 2P1.5	2x2x1.5	0.45	1.0	11.8	0.9	1.5	16.6	475
RE-2X(St)HSWAH PiMF 4P1.5	3x2x1.5	0.45	1.1	13.9	0.9	1.5	18.7	616
RE-2X(St)HSWAH PiMF 5P1.5	4x2x1.5	0.45	1.2	15.5	0.9	1.5	20.3	819
RE-2X(St)HSWAH PiMF 6P1.5	5x2x1.5	0.45	1.2	16.9	1.25	1.6	22.6	941
RE-2X(St)HSWAH PiMF 8P1.5	8x2x1.5	0.45	1.3	18.2	1.25	1.7	24.1	1039
RE-2X(St)HSWAH PiMF 10P1.5	10x2x1.5	0.45	1.4	21.0	1.25	1.7	26.9	1242
RE-2X(St)HSWAH PiMF 12P1.5	12x2x1.5	0.45	1.4	21.9	1.25	1.7	27.8	1387
RE-2X(St)HSWAH PiMF 16P1.5	16x2x1.5	0.45	1.5	25.1	1.25	1.8	31.2	1935
RE-2X(St)HSWAH PiMF 20P1.5	20x2x1.5	0.45	1.6	27.8	1.25	1.9	34.8	2227
RE-2X(St)HSWAH PiMF 24P1.5	24x2x1.5	0.45	1.7	30.4	1.25	2.0	37.6	2545

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	0.4	0.4	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>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			