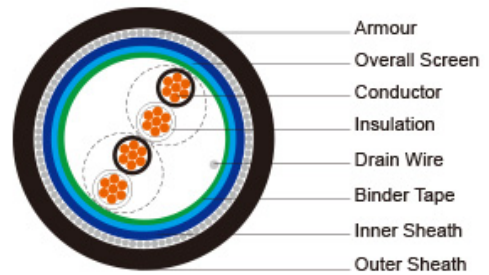


PE Insulated, LSZH Sheathed, Overall Screened & Armoured Instrumentation Cables (Multipair)



RE-2Y(St)HSWAH 90°C / 300V

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Note: Asterisk * denotes superseded standard, **Test temperature +60°C, duration 4h. Retention: min 60% of tensile 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.
Pair:	Two insulated conductors uniformly twisted together with a lay not exceeding 100mm

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 ²
Inner Sheath:	LSZH(Low Smoke Zero Halogen) sheath
Armouring:	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-2Y(St)HSAH							
	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
0.5mm ² , Multipair								
RE-2Y(St)HSAH 2P0.5	2x2x0.5	0.35	0.9	7.6	0.9	1.3	12.0	262
RE-2Y(St)HSAH 4P0.5	3x2x0.5	0.35	0.9	8.8	0.9	1.4	13.4	325
RE-2Y(St)HSAH 5P0.5	4x2x0.5	0.35	1.0	9.8	0.9	1.4	14.4	375

RE-2Y(St)HSAWAH 6P0.5	5x2x0.5	0.35	1.0	10.6	0.9	1.4	15.2	411
RE-2Y(St)HSAWAH 8P0.5	8x2x0.5	0.35	1.0	11.3	0.9	1.4	15.9	473
RE-2Y(St)HSAWAH 10P0.5	10x2x0.5	0.35	1.1	12.9	0.9	1.5	17.7	537
RE-2Y(St)HSAWAH 12P0.5	12x2x0.5	0.35	1.1	13.5	0.9	1.5	18.3	576
RE-2Y(St)HSAWAH 16P0.5	16x2x0.5	0.35	1.1	15.2	0.9	1.5	20.0	824
RE-2Y(St)HSAWAH 20P0.5	20x2x0.5	0.35	1.2	16.9	0.9	1.6	21.9	949
RE-2Y(St)HSAWAH 24P0.5	24x2x0.5	0.35	1.2	18.3	1.25	1.6	24.0	1030
0.75mm ² , Multipair								
RE-2Y(St)HSAWAH 2P0.75	2x2x0.75	0.38	0.9	8.5	0.9	1.4	13.1	308
RE-2Y(St)HSAWAH 4P0.75	3x2x0.75	0.38	1.0	10.0	0.9	1.4	14.6	383
RE-2Y(St)HSAWAH 5P0.75	4x2x0.75	0.38	1.0	10.9	0.9	1.4	15.5	448
RE-2Y(St)HSAWAH 6P0.75	5x2x0.75	0.38	1.0	11.8	0.9	1.4	16.4	482
RE-2Y(St)HSAWAH 8P0.75	8x2x0.75	0.38	1.1	12.8	0.9	1.5	17.6	534
RE-2Y(St)HSAWAH 10P0.75	10x2x0.75	0.38	1.1	14.5	0.9	1.5	19.3	654
RE-2Y(St)HSAWAH 12P0.75	12x2x0.75	0.38	1.1	15.1	0.9	1.5	19.9	826
RE-2Y(St)HSAWAH 16P0.75	16x2x0.75	0.38	1.2	17.3	0.9	1.6	22.3	967
RE-2Y(St)HSAWAH 20P0.75	20x2x0.75	0.38	1.3	19.2	1.25	1.6	24.9	1118
RE-2Y(St)HSAWAH 24P0.75	24x2x0.75	0.38	1.3	20.8	1.25	1.6	26.7	1294
1.0mm ² , Multipair								
RE-2Y(St)HSAWAH 2P1.0	2x2x1.0	0.4	0.9	9.2	0.9	1.4	13.8	357
RE-2Y(St)HSAWAH 4P1.0	3x2x1.0	0.4	1.0	10.9	0.9	1.4	15.5	450

RE-2Y(St)HSWAH 5P1.0	4x2x1.0	0.4	1.0	11.9	0.9	1.4	16.5	509
RE-2Y(St)HSWAH 6P1.0	5x2x1.0	0.4	1.0	13.0	0.9	1.4	17.6	565
RE-2Y(St)HSWAH 8P1.0	8x2x1.0	0.4	1.1	14.0	0.9	1.5	18.8	651
RE-2Y(St)HSWAH 10P1.0	10x2x1.0	0.4	1.1	15.9	0.9	1.5	20.7	886
RE-2Y(St)HSWAH 12P1.0	12x2x1.0	0.4	1.2	16.8	0.9	1.5	21.6	946
RE-2Y(St)HSWAH 16P1.0	16x2x1.0	0.4	1.2	19.0	1.25	1.6	24.7	1173
RE-2Y(St)HSWAH 20P1.0	20x2x1.0	0.4	1.3	21.1	1.25	1.7	27.0	1318
RE-2Y(St)HSWAH 24P1.0	24x2x1.0	0.4	1.4	23.1	1.25	1.7	29.0	1488
1.3mm ² , Multipair								
RE-2Y(St)HSWAH 2P1.3	2x2x1.3	0.45	1.0	10.4	0.9	1.4	15.0	405
RE-2Y(St)HSWAH 4P1.3	3x2x1.3	0.45	1.0	12.0	0.9	1.4	16.6	511
RE-2Y(St)HSWAH 5P1.3	4x2x1.3	0.45	1.1	13.4	0.9	1.5	18.2	595
RE-2Y(St)HSWAH 6P1.3	5x2x1.3	0.45	1.1	14.6	0.9	1.5	19.4	673
RE-2Y(St)HSWAH 8P1.3	8x2x1.3	0.45	1.2	15.7	0.9	1.5	20.5	870
RE-2Y(St)HSWAH 10P1.3	10x2x1.3	0.45	1.2	17.9	0.9	1.6	23.6	1012
RE-2Y(St)HSWAH 12P1.3	12x2x1.3	0.45	1.3	18.9	1.25	1.6	24.6	1143
RE-2Y(St)HSWAH 16P1.3	16x2x1.3	0.45	1.3	21.4	1.25	1.7	27.3	1407
RE-2Y(St)HSWAH 20P1.3	20x2x1.3	0.45	1.4	23.8	1.25	1.8	29.9	1601
RE-2Y(St)HSWAH 24P1.3	24x2x1.3	0.45	1.5	25.9	1.25	1.8	32.0	2048
1.5mm ² , Multipair								
RE-2Y(St)HSWAH 2P1.5	2x2x1.5	0.45	1.0	10.8	0.9	1.4	15.4	448

RE-2Y(St)HSAWAH 4P1.5	3x2x1.5	0.45	1.1	12.7	0.9	1.5	17.5	530
RE-2Y(St)HSAWAH 5P1.5	4x2x1.5	0.45	1.1	14.0	0.9	1.5	18.8	628
RE-2Y(St)HSAWAH 6P1.5	5x2x1.5	0.45	1.2	15.2	0.9	1.5	20.0	835
RE-2Y(St)HSAWAH 8P1.5	8x2x1.5	0.45	1.2	16.4	0.9	1.6	21.4	944
RE-2Y(St)HSAWAH 10P1.5	10x2x1.5	0.45	1.3	18.8	1.25	1.6	24.5	1097
RE-2Y(St)HSAWAH 12P1.5	12x2x1.5	0.45	1.3	19.7	1.25	1.7	25.6	1230
RE-2Y(St)HSAWAH 16P1.5	16x2x1.5	0.45	1.4	22.5	1.25	1.7	28.4	1471
RE-2Y(St)HSAWAH 20P1.5	20x2x1.5	0.45	1.5	25.0	1.25	1.8	31.1	1971
RE-2Y(St)HSAWAH 24P1.5	24x2x1.5	0.45	1.5	27.1	1.25	1.8	33.2	2251

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.)					
	up to 4 pairs	90	90	90	102	102
	above 4 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
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