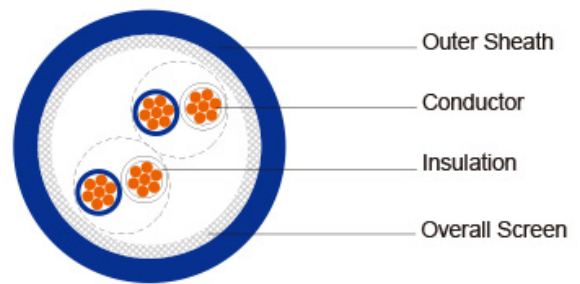


**XLPE Insulated, LSZH sheathed, CWB screened
Instrumentation cables (Multipair)**



RE-2X(c)H 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.

These cables are used for transmission of analogue and digital signals in instrument and control systems at chemistry and petrochemistry industry plants, power plants, natural gas and petroleum plants, etc...

These cables are used in the environments which have no corrosive gases are emitted in the event of fire. In case of fire, these cables inhibit the propagation of the flames whereby the development of smoke is extremely low. Instrumentation cables are not allowed for direct connection to a low impedance sources, e.g. public mains electricity supply. With blue sheath it is suitable for intrinsically safe systems. These cables are not recommended for direct burial. They are for indoor and outdoor installation, in dry and wet locations; on racks, trays, in conduits.

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Note: Asterisk * denotes superseded standard, ** denotes Test temperature +60°C, duration 4h.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:	Tinned copper wire braid
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 – +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(C)H		
	No. of Pairs x2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm2	Kg/km	Kg/km
	0.5mm2, Multipair		
RE-2X(C)H 2P0.5	2x2x0.50	10.7	143
RE-2X(C)H 3P0.5	3x2x0.50	11.1	159
RE-2X(C)H 4P0.5	4x2x0.50	11.9	181

RE-2X(C)H 6P0.5	6x2x0.50	13.6	230
RE-2X(C)H 8P0.5	8x2x0.50	14.2	264
RE-2X(C)H 12P0.5	12x2x0.50	16.4	343
RE-2X(C)H 16P0.5	16x2x0.50	18.2	418
RE-2X(C)H 20P0.5	20x2x0.50	19.7	487
RE-2X(C)H 24P0.5	24x2x0.50	21.1	557
0.75mm ² , Multipair			
RE-2X(C)H 2P0.75	2x2x0.75	11.4	160
RE-2X(C)H 3P0.75	3x2x0.75	11.9	185
RE-2X(C)H 4P0.75	4x2x0.75	12.7	214
RE-2X(C)H 6P0.75	6x2x0.75	14.6	278
RE-2X(C)H 8P0.75	8x2x0.75	15.4	324
RE-2X(C)H 12P0.75	12x2x0.75	17.8	427
RE-2X(C)H 16P0.75	16x2x0.75	19.8	526
RE-2X(C)H 20P0.75	20.x2x0.75	21.5	623
RE-2X(C)H 24P0.75	24x2x0.75	23.1	714
1.0mm ² , Multipair			
RE-2X(C)H 2P1.0	2x2x1.0	12.3	184
RE-2X(C)H 3P1.0	3x2x1.0	12.8	214
RE-2X(C)H 4P1.0	4x2x1.0	13.7	251
RE-2X(C)H 6P1.0	6x2x1.0	15.6	326
RE-2X(C)H 8P1.0	8x2x1.0	16.4	382
RE-2X(C)H 12P1.0	12x2x1.0	19.0	511
RE-2X(C)H 16P1.0	16x2x1.0	21.2	636
RE-2X(C)H 20P1.0	20.x2x1.0	23.5	775
RE-2X(C)H 24P1.0	24x2x1.0	25.3	892
1.3mm ² , Multipair			
RE-2X(C)H 2P1.3	2x2x1.3	12.9	204
RE-2X(C)H 3P1.3	3x2x1.3	13.5	242
RE-2X(C)H 4P1.3	4x2x1.3	14.5	285
RE-2X(C)H 6P1.3	6x2x1.3	16.7	375
RE-2X(C)H 8P1.3	8x2x1.3	17.4	444
RE-2X(C)H 12P1.3	12x2x1.3	20.2	599
RE-2X(C)H 16P1.3	16x2x1.3	22.6	750
RE-2X(C)H 20P1.3	20x2x1.3	25.1	916
RE-2X(C)H 24P1.3	24x2x1.3	27.0	1064

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)	ρF/m(Max.)					
	≤ 4 pairs	115	115	115	120	120
	all other pairs	90	90	90	90	90
Capacitance unbalance(1 kHz)	ρF/500 m (Max.)	300				
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			