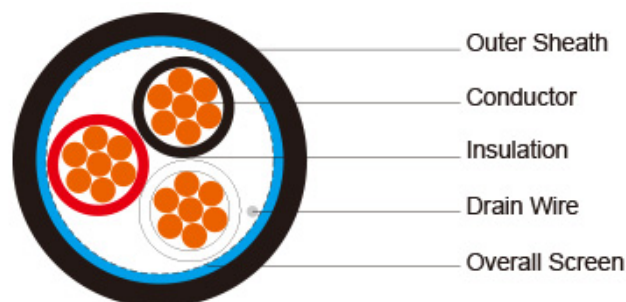


**XLPE Insulated, LSZH Sheathed & Overall
Screened Instrumentation Cables (Single Triple)**



RE-2X(St)H 90°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Note: Asterisk * denotes superseded standard, ** denotes Test temperature +60°C, duration 4h.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.
Triple:	Three conductors twisted to form a triple

Lay-up:	Triples laid up in layers of optimum pitch
Separator:	Polyester tape
Overall Screen:	Aluminium/polyester tape with tinned copper drain wire, 0.5mm ²
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 – +90°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)YH				
	No. of Triples x3xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x3xmm ²	mm	mm	mm	kg/km
RE-2X(St)H 1T0.5	1x3x0,50	0.35	0.8	5.4	45
RE-2X(St)H 1T0.75	1x3x0,75	0.38	0.9	6.1	59
RE-2X(St)H 1T1.0	1x3x1.0	0.4	0.9	6.6	66
RE-2X(St)H 1T1.3	1x3x1,3	0.45	0.9	7.2	86
RE-2X(St)H 1T1.5	1x3x1,5	0.45	0.9	7.5	95

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	25.0	18.5	14.2	12.3

Insulation resistance (20°C)		MΩ.km(Min.)	5000	5000	5000	5000	5000
Mutual Capacitance (1 kHz)		pF/m(Max.)	115				
Inductance		mH/km(Max.)	1				
L / R (ratio) (max.)		μH/Ω	25	25	25	40	40
Operating voltage		V	300				
Test Voltage Urms	Core to Core	V	1500				
	Core to Screen	V	1500				