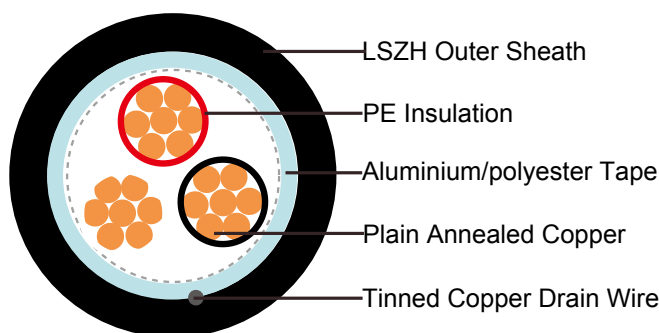
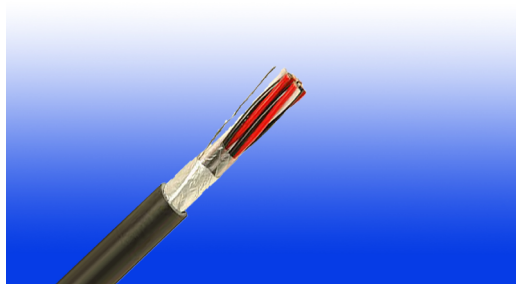




PE Insulated, LSZH Sheathed & Overall Screened Instrumentation Cables (Single Triple)

RE-2Y(St)H 90°C / 300 V



APPLICATION:

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.

STANDARDS

Basic design to EN50288-7

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Note: Asterisk * denotes superseded standard, **Test temperature +60°C, duration 4h.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.

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, 0.5mm²

Outer Sheath: Thermoplastic LSZH compound type to EN 50290-2-27.

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

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	0.40	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	115	115	115	115
Capacitance unbalance(1 kHz)	pF/500 m (Max.)	0	0	0	0	0
Inductance	mH/km(Max.)	1	1	1	1	1



L / R (ratio) (max.)		$\mu\text{H}/\Omega$	25	25	25	40	40
Operating voltage		V	300				
Test Voltage U_{rms}	Core to Core	V	1500	1500	1500	1500	1500
	Core to Screen	V	1500	1500	1500	1500	1500

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)H		
	No. of Triples x3xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness
	No.x3xmm ²	mm	mm
RE-2Y(St)H 1T0.5	1x3x0.50	0.35	0.8
RE-2Y(St)H 1T0.75	1x3x0.75	0.38	0.9
RE-2Y(St)H 1T1.0	1x3x1.0	0.40	0.9
RE-2Y(St)H 1T1.3	1x3x1.3	0.45	0.9
RE-2Y(St)H 1T1.5	1x3x1.5	0.45	0.9

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



Rated Voltage



Standard



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4



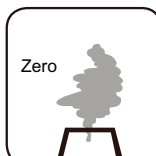
Low Toxicity
NES 02-713/NF C 20-454



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



Halogen Free
IEC60754-1
EN50267-2-1