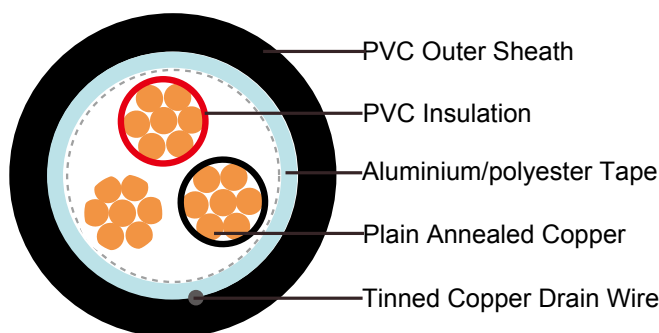
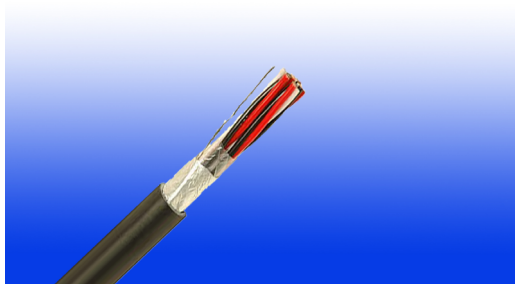




PVC Insulated, PVC Sheathed & Overall Screened Instrumentation Cables (Single Triple)

RE-Y(St)Y 90°C / 300 V



APPLICATION:

For transmission of analogue and digital signals in instrument and control systems; allowed for use in zone 1 and zone 2, group II, classified areas (IEC 79-14), not allowed for direct connection to low impedance sources, e.g. public mains electricity supply.

Recommended for indoor and outdoor installation, on racks, trays, in conduits, in dry and wet locations.

Recommended for use as fire protection measure for people and important material assets.

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
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Note: Asterisk * denotes superseded standard, *** denotes optional.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.

Insulation: PVC compound as per EN 50290-2-21.

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 PVC compound as per EN 50290-2-22. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

COLOUR CODE

Insulation: Black / White / Red.

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

Sunlight Resistance: UL 1581 section 1200

Oil Resistance: ICEA S-73-532 (Test temperature +60°C, duration 4h. Retention: min 60% of tensile strength/min.60% of elongation)

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 U_{rms}	Core to Core	V	1500
	Core to Screen	V	1500

CONSTRUCTION PARAMETERS

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

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

 300V Rated Voltage	 EN 50288-7 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	 Sunlight Resistance UL 1581 section 1200
 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	 Zero Halogen Free IEC60754-1 EN50267-2-1	 Oil Resistance ICEA S-73-532