Caledonian

EN 50288-7
XLPE, PE & PVC Insulated PVC Sheathed Instrumentation Cables

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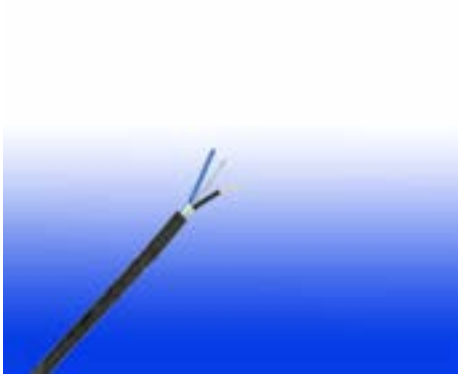
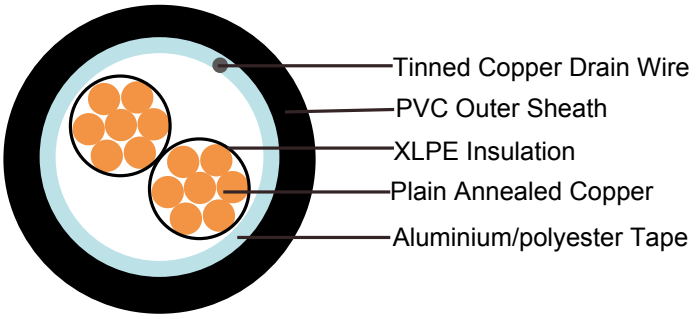
RE-2X(St)Y 90°C / 500V





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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

500V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per EN 50290-2-29.
Overall Screen: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
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 numbered.
Outer Sheath: Black, 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	2.5
Insulation thickness (nominal)		mm	0.55	0.55	0.55	0.6	0.6	0.7
Conductor resistance (20°C)		Ω/km	36.7	25.0	18.5	14.2	12.3	7.4
Insulation resistance (20°C)		MΩ.km(Min.)	5000					
Mutual Capacitance (1 kHz)		pF/m(Max.)	250					
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500					
L / R (ratio) (max.)		μH/Ω	25	25	25	40	40	60
Operating voltage		V	500					
Test Voltage U_{rms}	Core to Core	V	2000					
	Core to Screen	V	2000					

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(St)Y				
	No. of Core x1xCross Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
0.5mm^2, Multicore					
RE-2X(St)Y 2C0.5	2x1x0.5	0.55	0.9	6.2	47
RE-2X(St)Y 3C0.5	3x1x0.5	0.55	0.9	6.5	50
RE-2X(St)Y 4C0.5	4x1x0.5	0.55	0.9	7.0	60
RE-2X(St)Y 5C0.5	5x1x0.5	0.55	0.9	7.6	71
RE-2X(St)Y 8C0.5	8x1x0.5	0.55	1.0	9.1	95
RE-2X(St)Y 10C0.5	10x1x0.5	0.55	1.0	10.4	127

Caledonian Cable Code	RE-2X(St)Y				
	No. of Core x1xCross Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
RE-2X(St)Y 12C0.5	12x1x0.5	0.55	1.0	10.7	151
RE-2X(St)Y 14C0.5	14x1x0.5	0.55	1.0	11.3	162
RE-2X(St)Y 16C0.5	16x1x0.5	0.55	1.1	11.8	180
RE-2X(St)Y 20C0.5	20x1x0.5	0.55	1.1	13.3	222
RE-2X(St)Y 24C0.5	24x1x0.5	0.55	1.1	14.7	274
RE-2X(St)Y 27C0.5	27x1x0.5	0.55	1.2	15.0	282
RE-2X(St)Y 30C0.5	30x1x0.5	0.55	1.2	15.7	318
RE-2X(St)Y 37C0.5	37x1x0.5	0.55	1.2	16.9	372
RE-2X(St)Y 40C0.5	40x1x0.5	0.55	1.2	17.6	372
0.75mm^2, Multicore					
RE-2X(St)Y 2C0.75	2x1x0.75	0.55	0.9	6.5	51
RE-2X(St)Y 3C0.75	3x1x0.75	0.55	0.9	6.9	62
RE-2X(St)Y 4C0.75	4x1x0.75	0.55	0.9	7.4	74
RE-2X(St)Y 5C0.75	5x1x0.75	0.55	0.9	8.1	96
RE-2X(St)Y 8C0.75	8x1x0.75	0.55	1.0	9.7	126
RE-2X(St)Y 10C0.75	10x1x0.75	0.55	1.0	11.1	156
RE-2X(St)Y 12C0.75	12x1x0.75	0.55	1.0	11.5	183
RE-2X(St)Y 14C0.75	14x1x0.75	0.55	1.1	12.2	200
RE-2X(St)Y 16C0.75	16x1x0.75	0.55	1.1	12.9	224
RE-2X(St)Y 20C0.75	20x1x0.75	0.55	1.1	14.3	284
RE-2X(St)Y 24C0.75	24x1x0.75	0.55	1.2	16.0	324
RE-2X(St)Y 27C0.75	27x1x0.75	0.55	1.2	16.3	363
RE-2X(St)Y 30C0.75	30x1x0.75	0.55	1.2	16.9	396
RE-2X(St)Y 37C0.75	37x1x0.75	0.55	1.2	18.2	472
RE-2X(St)Y 40C0.75	40x1x0.75	0.55	1.3	19.1	514
1.0mm^2, Multicore					
RE-2X(St)Y 2C1.0	2x1x1.0	0.55	0.9	6.9	61
RE-2X(St)Y 3C1.0	3x1x1.0	0.55	0.9	7.3	70

Caledonian Cable Code	RE-2X(St)Y				
	No. of Core x1xCross Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
RE-2X(St)Y 4C1.0	4x1x1.0	0.55	0.9	7.9	85
RE-2X(St)Y 5C1.0	5x1x1.0	0.55	0.9	8.6	109
RE-2X(St)Y 8C1.0	8x1x1.0	0.55	1.0	10.3	157
RE-2X(St)Y 10C1.0	10x1x1.0	0.55	1.0	11.9	193
RE-2X(St)Y 12C1.0	12x1x1.0	0.55	1.0	12.2	214
RE-2X(St)Y 14C1.0	14x1x1.0	0.55	1.1	13.0	243
RE-2X(St)Y 16C1.0	16x1x1.0	0.55	1.1	13.7	280
RE-2X(St)Y 20C1.0	20x1x1.0	0.55	1.1	15.2	336
RE-2X(St)Y 24C1.0	24x1x1.0	0.55	1.2	17.0	414
RE-2X(St)Y 27C1.0	27x1x1.0	0.55	1.2	17.4	443
RE-2X(St)Y 30C1.0	30x1x1.0	0.55	1.2	18.0	484
RE-2X(St)Y 37C1.0	37x1x1.0	0.55	1.2	19.6	590
RE-2X(St)Y 40C1.0	40x1x1.0	0.55	1.3	20.4	631
1.3mm^2, Multicore					
RE-2X(St)Y 2C1.3	2x1x1.3	0.6	0.9	7.4	69
RE-2X(St)Y 3C1.3	3x1x1.3	0.6	0.9	7.9	83
RE-2X(St)Y 4C1.3	4x1x1.3	0.6	0.9	8.5	105
RE-2X(St)Y 5C1.3	5x1x1.3	0.6	1.0	9.5	135
RE-2X(St)Y 8C1.3	8x1x1.3	0.6	1.0	11.2	186
RE-2X(St)Y 10C1.3	10x1x1.3	0.6	1.1	13.2	228
RE-2X(St)Y 12C1.3	12x1x1.3	0.6	1.1	13.6	269
RE-2X(St)Y 14C1.3	14x1x1.3	0.6	1.1	14.3	305
RE-2X(St)Y 16C1.3	16x1x1.3	0.6	1.1	15.0	351
RE-2X(St)Y 20C1.3	20x1x1.3	0.6	1.2	16.9	423
RE-2X(St)Y 24C1.3	24x1x1.3	0.6	1.2	18.7	507
RE-2X(St)Y 27C1.3	27x1x1.3	0.6	1.3	19.3	558
RE-2X(St)Y 30C1.3	30x1x1.3	0.6	1.3	20.0	611
RE-2X(St)Y 37C1.3	37x1x1.3	0.6	1.3	21.6	743

Caledonian Cable Code	RE-2X(St)Y				
	No. of Core x1xCross Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
RE-2X(St)Y 40C1.3	40x1x1.3	0.6	1.4	22.7	796
1.5mm^2, Multicore					
RE-2X(St)Y 2C1.5	2x1x1.5	0.6	0.9	7.7	78
RE-2X(St)Y 3C1.5	3x1x1.5	0.6	0.9	8.1	98
RE-2X(St)Y 4C1.5	4x1x1.5	0.6	0.9	8.8	120
RE-2X(St)Y 5C1.5	5x1x1.5	0.6	1.0	9.8	153
RE-2X(St)Y 8C1.5	8x1x1.5	0.6	1.0	11.6	218
RE-2X(St)Y 10C1.5	10x1x1.5	0.6	1.1	13.7	268
RE-2X(St)Y 12C1.5	12x1x1.5	0.6	1.1	14.1	315
RE-2X(St)Y 14C1.5	14x1x1.5	0.6	1.1	14.8	341
RE-2X(St)Y 16C1.5	16x1x1.5	0.6	1.1	15.6	392
RE-2X(St)Y 20C1.5	20x1x1.5	0.6	1.2	17.6	484
RE-2X(St)Y 24C1.5	24x1x1.5	0.6	1.3	19.6	579
RE-2X(St)Y 27C1.5	27x1x1.5	0.6	1.3	20.1	626
RE-2X(St)Y 30C1.5	30x1x1.5	0.6	1.3	20.8	685
RE-2X(St)Y 37C1.5	37x1x1.5	0.6	1.4	22.6	834
RE-2X(St)Y 40C1.5	40x1x1.5	0.6	1.4	23.6	898
2.5mm^2, Multicore					
RE-2X(St)Y 2C2.5	2x1x2.5	0.7	0.9	8.9	111
RE-2X(St)Y 3C2.5	3x1x2.5	0.7	1.0	9.7	132
RE-2X(St)Y 4C2.5	4x1x2.5	0.7	1.0	10.5	169
RE-2X(St)Y 5C2.5	5x1x2.5	0.7	1.0	11.9	209
RE-2X(St)Y 8C2.5	8x1x2.5	0.7	1.1	13.9	321
RE-2X(St)Y 10C2.5	10x1x2.5	0.7	1.2	16.3	386
RE-2X(St)Y 12C2.5	12x1x2.5	0.7	1.2	16.9	447
RE-2X(St)Y 14C2.5	14x1x2.5	0.7	1.2	17.7	509
RE-2X(St)Y 16C2.5	16x1x2.5	0.7	1.3	18.9	585
RE-2X(St)Y 20C2.5	20x1x2.5	0.7	1.3	21.1	712

Caledonian Cable Code	RE-2X(St)Y				
	No. of Core x1xCross Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
RE-2X(St)Y 24C2.5	24x1x2.5	0.7	1.4	23.6	855
RE-2X(St)Y 27C2.5	27x1x2.5	0.7	1.4	24.1	956
RE-2X(St)Y 30C2.5	30x1x2.5	0.7	1.5	25.2	1049
RE-2X(St)Y 37C2.5	37x1x2.5	0.7	1.5	27.2	1277
RE-2X(St)Y 40C2.5	40x1x2.5	0.7	1.6	28.5	1370

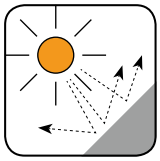
Note : Other conductor sizes & core configurations are available upon request.

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


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

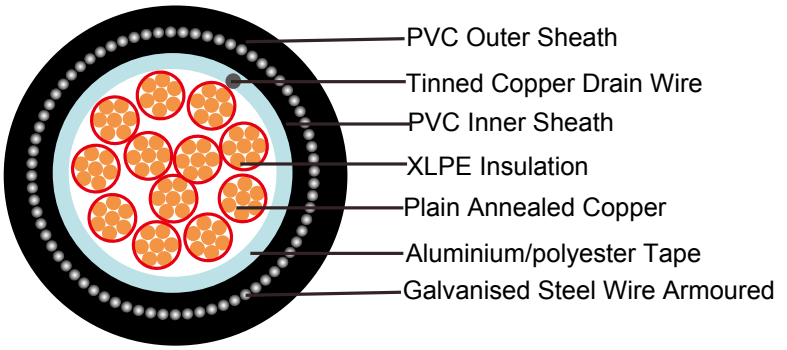

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

XLPE Insulated, PVC Sheathed, Overall Screened & Armoured Instrumentation Cables (Multicore)

RE-2X(St)YSWAY 90°C / 500V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

500V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per EN 50290-2-29.
Overall Screen: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
Inner Sheath: Thermoplastic PVC compound.
Armouring: Galvanised steel wire.

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 numbered.
Outer Sheath: Black, 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: 10 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	2.5
Insulation thickness (nominal)		mm	0.55	0.55	0.55	0.6	0.6	0.7
Conductor resistance (20°C)		Ω/km	36.7	25.0	18.5	14.2	12.3	7.4
Insulation resistance (20°C)		MΩ.km(Min.)	5000					
Mutual Capacitance (1 kHz)		pF/m(Max.)	250					
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	40
Operating voltage		V	500					
Test Voltage U_{rms}	Core to Core	V	2000					
	Core to Screen	V	2000					

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(St)YSWAY							
	No. of Core x1xCross 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.x1xmm^2	mm	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multicore								
RE-2X(St)YSWAY 2C0.5	2x1x0.5	0.55	0.9	6.2	0.9	1.3	10.6	210
RE-2X(St)YSWAY 3C0.5	3x1x0.5	0.55	0.9	6.5	0.9	1.3	10.9	230
RE-2X(St)YSWAY 4C0.5	4x1x0.5	0.55	0.9	7.0	0.9	1.3	11.4	253
RE-2X(St)YSWAY 5C0.5	5x1x0.5	0.55	0.9	7.6	0.9	1.3	12.0	283
RE-2X(St)YSWAY 8C0.5	8x1x0.5	0.55	1.0	9.1	0.9	1.4	13.7	344
RE-2X(St)YSWAY 10C0.5	10x1x0.5	0.55	1.0	10.4	0.9	1.4	15.0	399
RE-2X(St)YSWAY 12C0.5	12x1x0.5	0.55	1.0	10.7	0.9	1.4	15.3	442
RE-2X(St)YSWAY 14C0.5	14x1x0.5	0.55	1.0	11.3	0.9	1.4	15.9	474
RE-2X(St)YSWAY 16C0.5	16x1x0.5	0.55	1.1	11.8	0.9	1.4	16.4	505
RE-2X(St)YSWAY 20C0.5	20x1x0.5	0.55	1.1	13.3	0.9	1.5	18.1	569
RE-2X(St)YSWAY 24C0.5	24x1x0.5	0.55	1.1	14.7	0.9	1.5	19.5	642
RE-2X(St)YSWAY 27C0.5	27x1x0.5	0.55	1.2	15.0	0.9	1.5	19.8	808
RE-2X(St)YSWAY 30C0.5	30x1x0.5	0.55	1.2	15.7	0.9	1.5	20.5	848
RE-2X(St)YSWAY 37C0.5	37x1x0.5	0.55	1.2	16.9	0.9	1.6	21.9	963
RE-2X(St)YSWAY 40C0.5	40x1x0.5	0.55	1.2	17.6	1.25	1.6	23.3	1014
0.75mm^2, Multicore								
RE-2X(St)YSWAY 2C0.75	2x1x0.75	0.55	0.9	6.5	0.9	1.3	10.9	230
RE-2X(St)YSWAY 3C0.75	3x1x0.75	0.55	0.9	6.9	0.9	1.3	11.3	247
RE-2X(St)YSWAY 4C0.75	4x1x0.75	0.55	0.9	7.4	0.9	1.3	11.8	278
RE-2X(St)YSWAY 5C0.75	5x1x0.75	0.55	0.9	8.1	0.9	1.4	12.7	322
RE-2X(St)YSWAY 8C0.75	8x1x0.75	0.55	1.0	9.7	0.9	1.4	14.3	383
RE-2X(St)YSWAY 10C0.75	10x1x0.75	0.55	1.0	11.1	0.9	1.4	15.7	461
RE-2X(St)YSWAY 12C0.75	12x1x0.75	0.55	1.0	11.5	0.9	1.4	16.1	477
RE-2X(St)YSWAY 14C0.75	14x1x0.75	0.55	1.1	12.2	0.9	1.5	17.0	527
RE-2X(St)YSWAY 16C0.75	16x1x0.75	0.55	1.1	12.9	0.9	1.5	17.7	572
RE-2X(St)YSWAY 20C0.75	20x1x0.75	0.55	1.1	14.3	0.9	1.5	19.1	669
RE-2X(St)YSWAY 24C0.75	24x1x0.75	0.55	1.2	16.0	0.9	1.5	20.8	877
RE-2X(St)YSWAY 27C0.75	27x1x0.75	0.55	1.2	16.3	0.9	1.6	21.3	929

Caledonian Cable Code	RE-2X(St)YSWAY							
	No. of Core x1xCross 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.x1xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2X(St)YSWAY 30C0.75	30x1x0.75	0.55	1.2	16.9	0.9	1.6	21.9	986
RE-2X(St)YSWAY 37C0.75	37x1x0.75	0.55	1.2	18.2	1.25	1.6	23.9	1102
RE-2X(St)YSWAY 40C0.75	40x1x0.75	0.55	1.3	19.1	1.25	1.6	24.8	1181
1.0mm^2, Multicore								
RE-2X(St)YSWAY 2C1.0	2x1x1.0	0.55	0.9	6.9	0.9	1.3	11.3	247
RE-2X(St)YSWAY 3C1.0	3x1x1.0	0.55	0.9	7.3	0.9	1.3	11.7	270
RE-2X(St)YSWAY 4C1.0	4x1x1.0	0.55	0.9	7.9	0.9	1.4	12.5	299
RE-2X(St)YSWAY 5C1.0	5x1x1.0	0.55	0.9	8.6	0.9	1.4	13.2	342
RE-2X(St)YSWAY 8C1.0	8x1x1.0	0.55	1.0	10.3	0.9	1.4	14.9	424
RE-2X(St)YSWAY 10C1.0	10x1x1.0	0.55	1.0	11.9	0.9	1.4	16.5	514
RE-2X(St)YSWAY 12C1.0	12x1x1.0	0.55	1.0	12.2	0.9	1.5	17.0	548
RE-2X(St)YSWAY 14C1.0	14x1x1.0	0.55	1.1	13.0	0.9	1.5	17.8	590
RE-2X(St)YSWAY 16C1.0	16x1x1.0	0.55	1.1	13.7	0.9	1.5	18.5	649
RE-2X(St)YSWAY 20C1.0	20x1x1.0	0.55	1.1	15.2	0.9	1.5	20.0	864
RE-2X(St)YSWAY 24C1.0	24x1x1.0	0.55	1.2	17.0	0.9	1.6	22.0	1005
RE-2X(St)YSWAY 27C1.0	27x1x1.0	0.55	1.2	17.4	1.25	1.6	23.1	1058
RE-2X(St)YSWAY 30C1.0	30x1x1.0	0.55	1.2	18.0	1.25	1.6	23.7	1113
RE-2X(St)YSWAY 37C1.0	37x1x1.0	0.55	1.2	19.6	1.25	1.6	25.3	1271
RE-2X(St)YSWAY 40C1.0	40x1x1.0	0.55	1.3	20.4	1.25	1.7	26.3	1351
1.3mm^2, Multicore								
RE-2X(St)YSWAY 2C1.3	2x1x1.3	0.6	0.9	7.4	0.9	1.3	11.8	275
RE-2X(St)YSWAY 3C1.3	3x1x1.3	0.6	0.9	7.9	0.9	1.3	12.3	??
RE-2X(St)YSWAY 4C1.3	4x1x1.3	0.6	0.9	8.5	0.9	1.4	13.1	340
RE-2X(St)YSWAY 5C1.3	5x1x1.3	0.6	1.0	9.5	0.9	1.4	14.1	383
RE-2X(St)YSWAY 8C1.3	8x1x1.3	0.6	1.0	11.2	0.9	1.4	15.8	483
RE-2X(St)YSWAY 10C1.3	10x1x1.3	0.6	1.1	13.2	0.9	1.5	18.0	578
RE-2X(St)YSWAY 12C1.3	12x1x1.3	0.6	1.1	13.6	0.9	1.5	18.4	633
RE-2X(St)YSWAY 14C1.3	14x1x1.3	0.6	1.1	14.3	0.9	1.5	19.1	698
RE-2X(St)YSWAY 16C1.3	16x1x1.3	0.6	1.1	15.0	0.9	1.5	19.8	870
RE-2X(St)YSWAY 20C1.3	20x1x1.3	0.6	1.2	16.9	0.9	1.6	21.9	1014
RE-2X(St)YSWAY 24C1.3	24x1x1.3	0.6	1.2	18.7	1.25	1.6	24.4	1163

Caledonian Cable Code	RE-2X(St)YSWAY							
	No. of Core x1xCross 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.x1xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2X(St)YSWAY 27C1.3	27x1x1.3	0.6	1.3	19.3	1.25	1.6	25.0	1227
RE-2X(St)YSWAY 30C1.3	30x1x1.3	0.6	1.3	20.0	1.25	1.6	25.7	1305
RE-2X(St)YSWAY 37C1.3	37x1x1.3	0.6	1.3	21.6	1.25	1.7	27.5	1504
RE-2X(St)YSWAY 40C1.3	40x1x1.3	0.6	1.4	22.7	1.25	1.7	28.6	1584
1.5mm^2, Multicore								
RE-2X(St)YSWAY 2C1.5	2x1x1.5	0.6	0.9	7.7	0.9	1.3	12.1	279
RE-2X(St)YSWAY 3C1.5	3x1x1.5	0.6	0.9	8.1	0.9	1.4	12.7	322
RE-2X(St)YSWAY 4C1.5	4x1x1.5	0.6	0.9	8.8	0.9	1.4	13.4	347
RE-2X(St)YSWAY 5C1.5	5x1x1.5	0.6	1.0	9.8	0.9	1.4	14.4	392
RE-2X(St)YSWAY 8C1.5	8x1x1.5	0.6	1.0	11.6	0.9	1.4	16.2	518
RE-2X(St)YSWAY 10C1.5	10x1x1.5	0.6	1.1	13.7	0.9	1.5	18.5	614
RE-2X(St)YSWAY 12C1.5	12x1x1.5	0.6	1.1	14.1	0.9	1.5	18.9	670
RE-2X(St)YSWAY 14C1.5	14x1x1.5	0.6	1.1	14.8	0.9	1.5	19.6	742
RE-2X(St)YSWAY 16C1.5	16x1x1.5	0.6	1.1	15.6	0.9	1.5	20.4	925
RE-2X(St)YSWAY 20C1.5	20x1x1.5	0.6	1.2	17.6	1.25	1.6	23.3	1062
RE-2X(St)YSWAY 24C1.5	24x1x1.5	0.6	1.3	19.6	1.25	1.6	25.3	1218
RE-2X(St)YSWAY 27C1.5	27x1x1.5	0.6	1.3	20.1	1.25	1.6	25.8	1289
RE-2X(St)YSWAY 30C1.5	30x1x1.5	0.6	1.3	20.8	1.25	1.7	26.7	1418
RE-2X(St)YSWAY 37C1.5	37x1x1.5	0.6	1.4	22.6	1.25	1.7	28.5	1586
RE-2X(St)YSWAY 40C1.5	40x1x1.5	0.6	1.4	23.6	1.25	1.7	29.5	1687
2.5mm^2, Multicore								
RE-2X(St)YSWAY 2C2.5	2x1x2.5	0.7	0.9	8.9	0.9	1.4	13.5	364
RE-2X(St)YSWAY 3C2.5	3x1x2.5	0.7	1.0	9.7	0.9	1.4	14.3	389
RE-2X(St)YSWAY 4C2.5	4x1x2.5	0.7	1.0	10.5	0.9	1.4	15.1	430
RE-2X(St)YSWAY 5C2.5	5x1x2.5	0.7	1.0	11.9	0.9	1.4	16.5	547
RE-2X(St)YSWAY 8C2.5	8x1x2.5	0.7	1.1	13.9	0.9	1.5	18.7	684
RE-2X(St)YSWAY 10C2.5	10x1x2.5	0.7	1.2	16.3	0.9	1.6	21.3	952
RE-2X(St)YSWAY 12C2.5	12x1x2.5	0.7	1.2	16.9	0.9	1.6	21.9	1012
RE-2X(St)YSWAY 14C2.5	14x1x2.5	0.7	1.2	17.7	1.25	1.6	23.4	1126
RE-2X(St)YSWAY 16C2.5	16x1x2.5	0.7	1.3	18.9	1.25	1.6	24.6	1252
RE-2X(St)YSWAY 20C2.5	20x1x2.5	0.7	1.3	21.1	1.25	1.7	27.0	1456

Caledonian Cable Code	RE-2X(St)YSWAY							
	No. of Core x1xCross 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.x1xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2X(St)YSWAY 24C2.5	24x1x2.5	0.7	1.4	23.6	1.25	1.7	29.5	1644
RE-2X(St)YSWAY 27C2.5	27x1x2.5	0.7	1.4	24.1	1.25	1.8	30.2	1811
RE-2X(St)YSWAY 30C2.5	30x1x2.5	0.7	1.5	25.2	1.25	1.8	31.3	2154
RE-2X(St)YSWAY 37C2.5	37x1x2.5	0.7	1.5	27.2	1.25	1.8	33.3	2477
RE-2X(St)YSWAY 40C2.5	40x1x2.5	0.7	1.6	28.5	1.25	1.9	34.8	2614

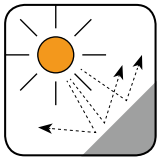
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

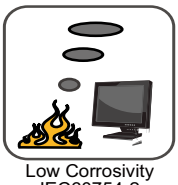
Standard


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


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

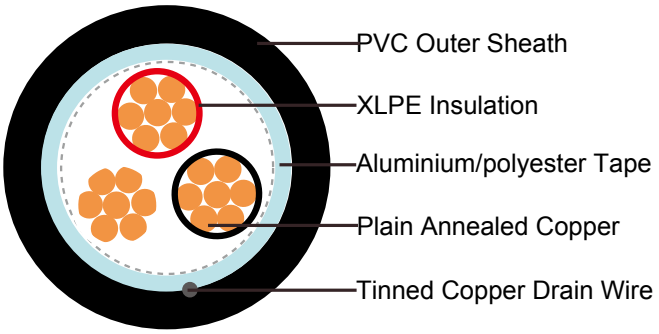

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

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

RE-2X(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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per 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 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, continuously numbered on white core(1, 2..)for multitriples.
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.)	250				
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-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)Y 1T0.5	1x3x0.50	0.35	0.8	5.4	45

RE-2X(St)Y 1T0.75	1x3x0.75	0.38	0.9	6.1	59
RE-2X(St)Y 1T1.0	1x3x1.0	0.4	0.9	6.6	66
RE-2X(St)Y 1T1.3	1x3x1.3	0.45	0.9	7.2	86
RE-2X(St)Y 1T1.5	1x3x1.5	0.45	0.9	7.5	95

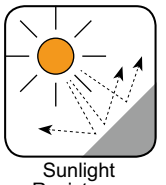
Note : Other conductor sizes & core configurations are available upon request.

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


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

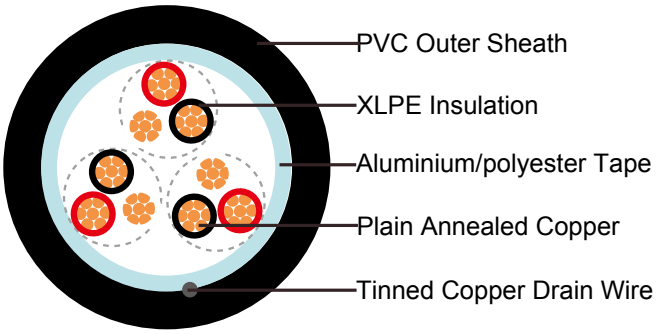

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

XLPE Insulated, PVC Sheathed & Overall Screened Instrumentation Cables (Multitriple)

RE-2X(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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per 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 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, continuously numbered on white core(1, 2..)for multitriples.
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				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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-2X(St)Y				
	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
0.5mm^2 , Multi-striple					
RE-2X(St)Y 2T0.5	2x3x0.50	0.35	0.9	8.4	91
RE-2X(St)Y 4T0.5	4x3x0.50	0.35	1.0	9.8	123
RE-2X(St)Y 5T0.5	5x3x0.50	0.35	1.0	10.8	155
RE-2X(St)Y 6T0.5	6x3x0.50	0.35	1.0	12.1	185
RE-2X(St)Y 8T0.5	8x3x0.50	0.35	1.1	13.1	221
RE-2X(St)Y 10T0.5	10x3x0.50	0.35	1.1	14.7	275
RE-2X(St)Y 12T0.5	12x3x0.50	0.35	1.1	15.2	316
RE-2X(St)Y 16T0.5	16x3x0.50	0.35	1.2	17.4	414
RE-2X(St)Y 20T0.5	20x3x0.50	0.35	1.2	19.1	508
RE-2X(St)Y 24T0.5	24x3x0.50	0.35	1.3	20.9	594
0.75mm^2 , Multi-striple					
RE-2X(St)Y 2T0.75	2x3x0.75	0.38	0.9	9.3	114
RE-2X(St)Y 4T0.75	4x3x0.75	0.38	1.0	10.9	163
RE-2X(St)Y 5T0.75	5x3x0.75	0.38	1.0	12.0	199
RE-2X(St)Y 6T0.75	6x3x0.75	0.38	1.1	13.7	245
RE-2X(St)Y 8T0.75	8x3x0.75	0.38	1.1	14.7	296
RE-2X(St)Y 10T0.75	10x3x0.75	0.38	1.2	16.7	366
RE-2X(St)Y 12T0.75	12x3x0.75	0.38	1.2	17.3	423
RE-2X(St)Y 16T0.75	16x3x0.75	0.38	1.3	19.7	555
RE-2X(St)Y 20T0.75	20x3x0.75	0.38	1.3	21.7	681
RE-2X(St)Y 24T0.75	24x3x0.75	0.38	1.4	23.7	802
1.0mm^2 , Multi-striple					
RE-2X(St)Y 2T1.0	2x3x1.0	0.4	1.0	10.4	135
RE-2X(St)Y 4T1.0	4x3x1.0	0.4	1.0	11.9	202
RE-2X(St)Y 5T1.0	5x3x1.0.0	0.4	1.0	13.2	251
RE-2X(St)Y 6T1.0	6x3x1.0	0.4	1.1	15.0	303
RE-2X(St)Y 8T1.0	8x3x1.0	0.4	1.1	16.1	379

Caledonian Cable Code	RE-2X(St)Y				
	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)Y 10T1.0	10x3x1.0	0.4	1.2	18.4	461
RE-2X(St)Y 12T1.0	12x3x1.0	0.4	1.2	19.0	544
RE-2X(St)Y 16T1.0	16x3x1.0	0.4	1.3	21.7	717
RE-2X(St)Y 20T1.0	20x3x1.0	0.4	1.4	24.1	880
RE-2X(St)Y 24T1.0	24x3x1.0	0.4	1.4	26.1	1048
1.3mm^2 , Multi-striple					
RE-2X(St)Y 2T1.3	2x3x1.3	0.45	1.0	11.5	175
RE-2X(St)Y 4T1.3	4x3x1.3	0.45	1.1	13.4	258
RE-2X(St)Y 5T1.3	5x3x1.3	0.45	1.1	14.8	318
RE-2X(St)Y 6T1.3	6x3x1.3	0.45	1.2	16.9	387
RE-2X(St)Y 8T1.3	8x3x1.3	0.45	1.2	18.1	474
RE-2X(St)Y 10T1.3	10x3x1.3	0.45	1.3	20.7	589
RE-2X(St)Y 12T1.3	12x3x1.3	0.45	1.3	21.4	695
RE-2X(St)Y 16T1.3	16x3x1.3	0.45	1.4	24.4	918
RE-2X(St)Y 20T1.3	20x3x1.3	0.45	1.5	27.1	1124
RE-2X(St)Y 24T1.3	24x3x1.3	0.45	1.6	29.6	1336
1.5mm^2 , Multi-striple					
RE-2X(St)Y 2T1.5	2x3x1.5	0.45	1.0	11.9	191
RE-2X(St)Y 4T1.5	4x3x1.5	0.45	1.1	14.0	287
RE-2X(St)Y 5T1.5	5x3x1.5	0.45	1.1	15.4	355
RE-2X(St)Y 6T1.5	6x3x1.5	0.45	1.2	17.6	432
RE-2X(St)Y 8T1.5	8x3x1.5	0.45	1.3	19.1	540
RE-2X(St)Y 10T1.5	10x3x1.5	0.45	1.3	21.6	672
RE-2X(St)Y 12T1.5	12x3x1.5	0.45	1.4	22.5	779
RE-2X(St)Y 16T1.5	16x3x1.5	0.45	1.5	25.7	1031
RE-2X(St)Y 20T1.5	20x3x1.5	0.45	1.6	28.6	1265
RE-2X(St)Y 24T1.5	24x3x1.5	0.45	1.7	31.1	1508

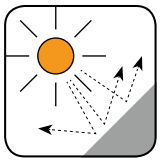
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

Standard

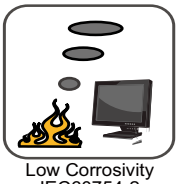
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

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



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

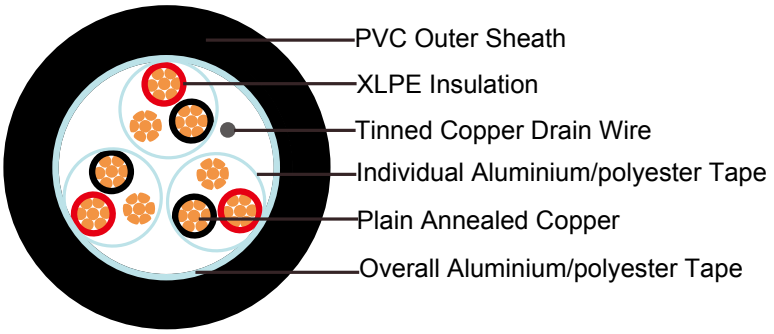
Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Oil Resistance
ICEA S-73-532

XLPE Insulated, PVC Sheathed, Individual & Overall Screened Instrumentation Cables (Multitriple)

RE-2X(St)Y-TiMF 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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per EN 50290-2-29.
Individual Screen: Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm².
Triple: Three conductors twisted to form a triple.

**TiMF Construction: Polyester tape above the triple, AL-PES tape over solid tinned copper drain wire, 0,60 mm.
Lay-up: TiMF 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 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, continuously numbered on white core(1, 2..)for multitriples.
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
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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(St)Y-TiMF				
	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
0.5mm^2, Multi-striple					
RE-2X(St)Y-TiMF 2T0.5	2x3x0.5	0.35	1.0	9.7	104
RE-2X(St)Y-TiMF 4T0.5	4x3x0.5	0.35	1.0	11.1	151
RE-2X(St)Y-TiMF 5T0.5	5x3x0.5	0.35	1.1	12.4	183
RE-2X(St)Y-TiMF 6T0.5	6x3x0.5	0.35	1.1	14.0	225
RE-2X(St)Y-TiMF 8T0.5	8x3x0.5	0.35	1.1	14.9	283
RE-2X(St)Y-TiMF 10T0.5	10x3x0.5	0.35	1.2	17.0	348
RE-2X(St)Y-TiMF 12T0.5	12x3x0.5	0.35	1.2	17.6	385
RE-2X(St)Y-TiMF 16T0.5	16x3x0.5	0.35	1.3	20.1	504
RE-2X(St)Y-TiMF 20T0.5	20x3x0.5	0.35	1.4	22.3	616
RE-2X(St)Y-TiMF 24T0.5	24x3x0.5	0.35	1.5	24.4	749
0.75mm^2, Multi-striple					
RE-2X(St)Y-TiMF 2T0.75	2x3x0.75	0.38	1.0	10.6	121
RE-2X(St)Y-TiMF 4T0.75	4x3x0.75	0.38	1.1	12.4	186
RE-2X(St)Y-TiMF 5T0.75	5x3x0.75	0.38	1.1	13.7	242
RE-2X(St)Y-TiMF 6T0.75	6x3x0.75	0.38	1.1	15.4	280
RE-2X(St)Y-TiMF 8T0.75	8x3x0.75	0.38	1.2	16.7	362
RE-2X(St)Y-TiMF 10T0.75	10x3x0.75	0.38	1.3	19.0	446
RE-2X(St)Y-TiMF 12T0.75	12x3x0.75	0.38	1.3	19.7	495
RE-2X(St)Y-TiMF 16T0.75	16x3x0.75	0.38	1.4	22.5	652
RE-2X(St)Y-TiMF 20T0.75	20x3x0.75	0.38	1.5	24.9	833
RE-2X(St)Y-TiMF 24T0.75	24x3x0.75	0.38	1.6	27.2	966
1.0mm^2, Multi-striple					
RE-2X(St)Y-TiMF 2T1.0	2x3x1.0	0.4	1.0	11.5	154
RE-2X(St)Y-TiMF 4T1.0	4x3x1.0	0.4	1.1	13.4	227
RE-2X(St)Y-TiMF 5T1.0	5x3x1.0	0.4	1.1	14.8	286
RE-2X(St)Y-TiMF 6T1.0	6x3x1.0	0.4	1.2	16.9	348
RE-2X(St)Y-TiMF 8T1.0	8x3x1.0	0.4	1.2	18.1	443

Caledonian Cable Code	RE-2X(St)Y-TiMF				
	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)Y-TiMF 10T1.0	10x3x1.0	0.4	1.3	20.7	545
RE-2X(St)Y-TiMF 12T1.0	12x3x1.0	0.4	1.3	21.4	621
RE-2X(St)Y-TiMF 16T1.0	16x3x1.0	0.4	1.4	24.4	836
RE-2X(St)Y-TiMF 20T1.0	20x3x1.0	0.4	1.5	27.1	1001
RE-2X(St)Y-TiMF 24T1.0	24x3x1.0	0.4	1.6	29.6	1207
1.3mm^2, Multi-striple					
RE-2X(St)Y-TiMF 2T1.3	2x3x1.3	0.45	1.1	12.8	185
RE-2X(St)Y-TiMF 4T1.3	4x3x1.3	0.45	1.1	14.7	283
RE-2X(St)Y-TiMF 5T1.3	5x3x1.3	0.45	1.2	16.5	357
RE-2X(St)Y-TiMF 6T1.3	6x3x1.3	0.45	1.3	18.8	425
RE-2X(St)Y-TiMF 8T1.3	8x3x1.3	0.45	1.3	20.1	553
RE-2X(St)Y-TiMF 10T1.3	10x3x1.3	0.45	1.4	23.0	682
RE-2X(St)Y-TiMF 12T1.3	12x3x1.3	0.45	1.5	24.0	767
RE-2X(St)Y-TiMF 16T1.3	16x3x1.3	0.45	1.6	27.4	1022
RE-2X(St)Y-TiMF 20T1.3	20x3x1.3	0.45	1.7	30.4	1252
RE-2X(St)Y-TiMF 24T1.3	24x3x1.3	0.45	1.8	33.1	1511
1.5mm^2, Multi-striple					
RE-2X(St)Y-TiMF 2T1.5	2x3x1.5	0.45	1.1	13.2	207
RE-2X(St)Y-TiMF 4T1.5	4x3x1.5	0.45	1.2	15.4	314
RE-2X(St)Y-TiMF 5T1.5	5x3x1.5	0.45	1.2	17.1	396
RE-2X(St)Y-TiMF 6T1.5	6x3x1.5	0.45	1.3	19.5	482
RE-2X(St)Y-TiMF 8T1.5	8x3x1.5	0.45	1.4	21.1	617
RE-2X(St)Y-TiMF 10T1.5	10x3x1.5	0.45	1.5	24.1	765
RE-2X(St)Y-TiMF 12T1.5	12x3x1.5	0.45	1.5	24.9	867
RE-2X(St)Y-TiMF 16T1.5	16x3x1.5	0.45	1.6	28.4	1140
RE-2X(St)Y-TiMF 20T1.5	20x3x1.5	0.45	1.7	31.6	1421
RE-2X(St)Y-TiMF 24T1.5	24x3x1.5	0.45	1.8	34.4	1691

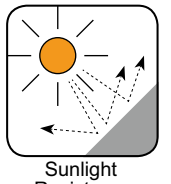
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

Standard

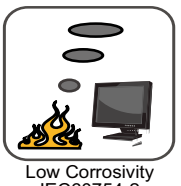
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

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



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

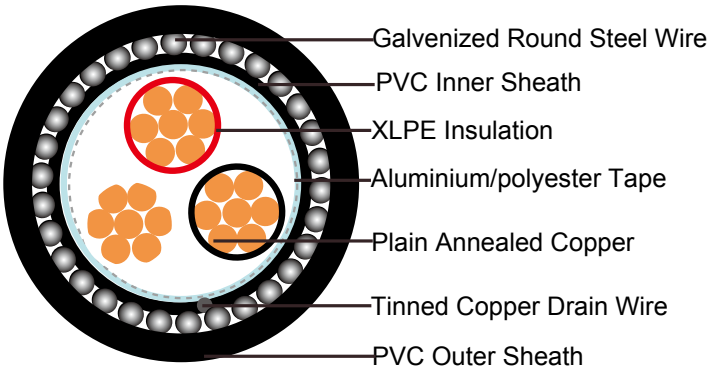
Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Oil Resistance
ICEA S-73-532

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

RE-2X(St)YSWAY 70°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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per 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: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
Inner Sheath: Thermoplastic PVC compound.
Armour: Galvenized round steel wire, EN 10257-1.
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, continuously numbered on white core(1, 2..)for multitriples.
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
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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500				
L / R (ratio) (max.)		μH/Ω	25	25	25	40	40
Inductance		mH/km(Max.)	1				
Operating voltage Urms		V	300				
Test Voltage	Core to Core	V	1500				
	Core to Screen	V	1500				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(St)YSWAY							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2X(St)YSWAY 1T0.5	1x3x0.50	0.35	0.8	5.4	0.9	1.3	9.8	200
RE-2X(St)YSWAY 1T0.75	1x3x0.75	0.38	0.9	6.1	0.9	1.3	10.5	220
RE-2X(St)YSWAY 1T1.0	1x3x1.0	0.4	0.9	6.6	0.9	1.3	11.0	244
RE-2X(St)YSWAY 1T1.3	1x3x1.3	0.45	0.9	7.2	0.9	1.3	11.6	268
RE-2X(St)YSWAY 1T1.5	1x3x1.5	0.45	0.9	7.5	0.9	1.3	11.9	293

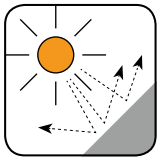
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

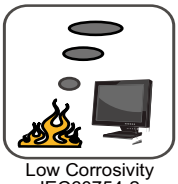
Standard


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


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

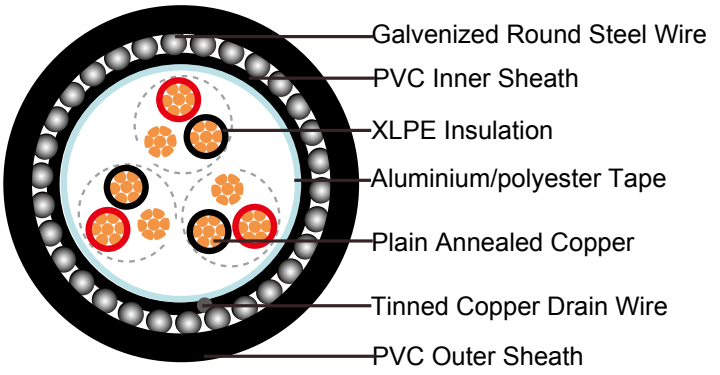

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

XLPE Insulated, PVC Sheathed, Overall Screened & Armoured Instrumentation Cables (Multitriple)

RE-2X(St)YSWAY 70°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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standardl.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per 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: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
Inner Sheath: Thermoplastic PVC compound.
Armour: Galvenized round steel wire, EN 10257-1.
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, continuously numbered on white core(1, 2..)for multitriples.
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
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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500				
L / R (ratio) (max.)		μH/Ω	25	25	25	40	40
Inductance		mH/km(Max.)	1				
Operating voltage Urms		V	300				
Test Voltage	Core to Core	V	1500				
	Core to Screen	V	1500				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(St)YSWAY							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multi-striple								
RE-2X(St)YSWAY 2T0.5	2x3x0.5	0.35	0.9	8.4	0.9	1.4	13.0	326
RE-2X(St)YSWAY 4T0.5	4x3x0.5	0.35	1.0	9.8	0.9	1.4	14.4	386
RE-2X(St)YSWAY 5T0.5	5x3x0.5	0.35	1.0	10.8	0.9	1.4	15.4	454
RE-2X(St)YSWAY 6T0.5	6x3x0.5	0.35	1.0	12.1	0.9	1.4	16.7	513
RE-2X(St)YSWAY 8T0.5	8x3x0.5	0.35	1.1	13.1	0.9	1.5	17.9	570
RE-2X(St)YSWAY 10T0.5	10x3x0.5	0.35	1.1	14.7	0.9	1.5	19.5	658
RE-2X(St)YSWAY 12T0.5	12x3x0.5	0.35	1.1	15.2	0.9	1.5	20.0	844
RE-2X(St)YSWAY 16T0.5	16x3x0.5	0.35	1.2	17.4	0.9	1.6	22.4	1001
RE-2X(St)YSWAY 20T0.5	20x3x0.5	0.35	1.2	19.1	1.25	1.6	24.8	1177
RE-2X(St)YSWAY 24T0.5	24x3x0.5	0.35	1.3	20.9	1.25	1.7	26.8	1327
0.75mm^2, Multi-striple								
RE-2X(St)YSWAY 2T0.75	2x3x0.75	0.38	1.0	10.6	0.9	1.4	13.9	369
RE-2X(St)YSWAY 4T0.75	4x3x0.75	0.38	1.1	12.4	0.9	1.4	15.5	462
RE-2X(St)YSWAY 5T0.75	5x3x0.75	0.38	1.1	13.7	0.9	1.4	16.6	526
RE-2X(St)YSWAY 6T0.75	6x3x0.75	0.38	1.1	15.4	0.9	1.5	18.5	614
RE-2X(St)YSWAY 8T0.75	8x3x0.75	0.38	1.2	16.7	0.9	1.5	19.5	697
RE-2X(St)YSWAY 10T0.75	10x3x0.75	0.38	1.3	19.0	0.9	1.5	21.5	918
RE-2X(St)YSWAY 12T0.75	12x3x0.75	0.38	1.3	19.7	0.9	1.7	22.3	1027
RE-2X(St)YSWAY 16T0.75	16x3x0.75	0.38	1.4	22.5	1.25	1.6	25.4	1237
RE-2X(St)YSWAY 20T0.75	20x3x0.75	0.38	1.5	24.9	1.25	1.7	27.6	1443
RE-2X(St)YSWAY 24T0.75	24x3x0.75	0.38	1.6	27.2	1.25	1.7	29.6	1628
1.0mm^2, Multi-striple								
RE-2X(St)YSWAY 2T1.0	2x3x1.0	0.4	1.0	11.5	0.9	1.4	15.0	403
RE-2X(St)YSWAY 4T1.0	4x3x1.0	0.4	1.1	13.4	0.9	1.4	16.5	528
RE-2X(St)YSWAY 5T1.0	5x3x1.0	0.4	1.1	14.8	0.9	1.5	18.0	619
RE-2X(St)YSWAY 6T1.0	6x3x1.0	0.4	1.2	16.9	0.9	1.5	19.8	829
RE-2X(St)YSWAY 8T1.0	8x3x1.0	0.4	1.2	18.1	0.9	1.5	20.9	945

Caledonian Cable Code	RE-2X(St)YSWAY							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2X(St)YSWAY 10T1.0	10x3x1.0	0.4	1.3	20.7	0.9	1.6	24.1	1074
RE-2X(St)YSWAY 12T1.0	12x3x1.0	0.4	1.3	21.4	1.25	1.6	24.7	1212
RE-2X(St)YSWAY 16T1.0	16x3x1.0	0.4	1.4	24.4	1.25	1.7	27.6	1478
RE-2X(St)YSWAY 20T1.0	20x3x1.0	0.4	1.5	27.1	1.25	1.7	30.0	1736
RE-2X(St)YSWAY 24T1.0	24x3x1.0	0.4	1.6	29.6	1.25	1.8	32.2	2197
1.3mm^2, Multi-striple								
RE-2X(St)YSWAY 2T1.3	2x3x1.3	0.45	1.1	12.8	0.9	1.4	16.1	488
RE-2X(St)YSWAY 4T1.3	4x3x1.3	0.45	1.1	14.7	0.9	1.5	18.2	620
RE-2X(St)YSWAY 5T1.3	5x3x1.3	0.45	1.2	16.5	0.9	1.5	19.6	720
RE-2X(St)YSWAY 6T1.3	6x3x1.3	0.45	1.3	18.8	0.9	1.5	21.7	952
RE-2X(St)YSWAY 8T1.3	8x3x1.3	0.45	1.3	20.1	0.9	1.6	23.8	1076
RE-2X(St)YSWAY 10T1.3	10x3x1.3	0.45	1.4	23.0	1.25	1.7	26.6	1320
RE-2X(St)YSWAY 12T1.3	12x3x1.3	0.45	1.5	24.0	1.25	1.7	27.3	1454
RE-2X(St)YSWAY 16T1.3	16x3x1.3	0.45	1.6	27.4	1.25	1.8	30.5	1785
RE-2X(St)YSWAY 20T1.3	20x3x1.3	0.45	1.7	30.4	1.25	1.8	33.2	2323
RE-2X(St)YSWAY 24T1.3	24x3x1.3	0.45	1.8	33.1	1.60	1.9	36.6	2633
1.5mm^2, Multi-striple								
RE-2X(St)YSWAY 2T1.5	2x3x1.5	0.45	1.1	13.2	0.9	1.4	16.5	491
RE-2X(St)YSWAY 4T1.5	4x3x1.5	0.45	1.2	15.4	0.9	1.5	18.8	673
RE-2X(St)YSWAY 5T1.5	5x3x1.5	0.45	1.2	17.1	0.9	1.5	20.2	894
RE-2X(St)YSWAY 6T1.5	6x3x1.5	0.45	1.3	19.5	0.9	1.6	22.6	1021
RE-2X(St)YSWAY 8T1.5	8x3x1.5	0.45	1.4	21.1	1.25	1.6	24.8	1208
RE-2X(St)YSWAY 10T1.5	10x3x1.5	0.45	1.5	24.1	1.25	1.7	27.5	1433
RE-2X(St)YSWAY 12T1.5	12x3x1.5	0.45	1.5	24.9	1.25	1.7	28.4	1565
RE-2X(St)YSWAY 16T1.5	16x3x1.5	0.45	1.6	28.4	1.25	1.8	31.8	2157
RE-2X(St)YSWAY 20T1.5	20x3x1.5	0.45	1.7	31.6	1.25	1.9	34.9	2510
RE-2X(St)YSWAY 24T1.5	24x3x1.5	0.45	1.8	34.4	1.60	2.0	38.3	2873

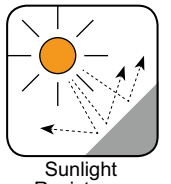
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

Standard

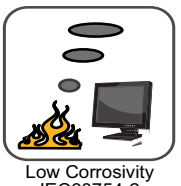
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

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



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

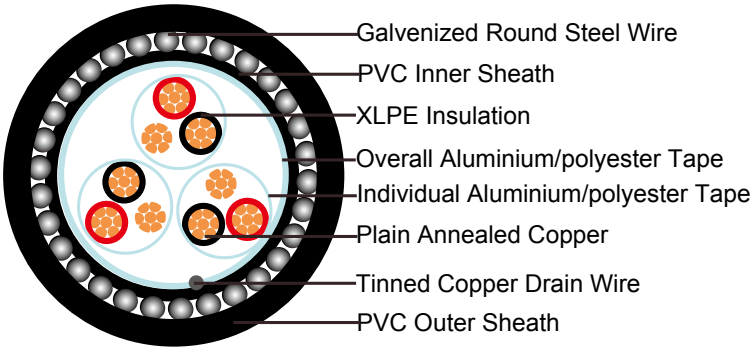
Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Oil Resistance
ICEA S-73-532

XLPE Insulated, PVC Sheathed, Individual & Overall Screened, Armoured Instrumentation Cables (Multitriple)

RE-2X(St)YSWAY-TiMF 70°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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standardl.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per EN 50290-2-29.
Individual Screen: Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm².
Pair: Two conductors twisted to form a pair.
Lay-up: Pairs laid up in layers of optimum pitch.
Separator: Polyester tape.
Overall Screen: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
Inner Sheath: Thermoplastic PVC compound.
Armour: Galvenized round steel wire, EN 10257-1.
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, continuously numbered on white core(1, 2..)for multitriples.
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
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	0.4	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)		pF/m(Max.)	250				
Inductance		mH/km(Max.)	1				
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(St)YSWAY-TiMF							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multi-striple								
RE-2X(St)YSWAY-TiMF 2T0.5	2x3x0.5	0.35	1.0	9.7	0.9	1.4	14.3	363
RE-2X(St)YSWAY-TiMF 4T0.5	4x3x0.5	0.35	1.0	11.1	0.9	1.4	15.7	456
RE-2X(St)YSWAY-TiMF 5T0.5	5x3x0.5	0.35	1.1	12.4	0.9	1.5	17.2	516
RE-2X(St)YSWAY-TiMF 6T0.5	6x3x0.5	0.35	1.1	14.0	0.9	1.5	18.8	611
RE-2X(St)YSWAY-TiMF 8T0.5	8x3x0.5	0.35	1.1	14.9	0.9	1.5	19.7	766
RE-2X(St)YSWAY-TiMF 10T0.5	10x3x0.5	0.35	1.2	17.0	1.25	1.6	22.7	950
RE-2X(St)YSWAY-TiMF 12T0.5	12x3x0.5	0.35	1.2	17.6	1.25	1.6	23.3	975
RE-2X(St)YSWAY-TiMF 16T0.5	16x3x0.5	0.35	1.3	20.1	1.25	1.7	26.0	1169
RE-2X(St)YSWAY-TiMF 20T0.5	20x3x0.5	0.35	1.4	22.3	1.25	1.7	28.2	1365
RE-2X(St)YSWAY-TiMF 24T0.5	24x3x0.5	0.35	1.5	24.4	1.25	1.8	30.5	1604
0.75mm^2, Multi-striple								
RE-2X(St)YSWAY-TiMF 2T0.75	2x3x0.75	0.38	1.0	10.6	0.9	1.4	15.2	408
RE-2X(St)YSWAY-TiMF 4T0.75	4x3x0.75	0.38	1.1	12.4	0.9	1.5	17.2	521
RE-2X(St)YSWAY-TiMF 5T0.75	5x3x0.75	0.38	1.1	13.7	0.9	1.5	18.5	590
RE-2X(St)YSWAY-TiMF 6T0.75	6x3x0.75	0.38	1.1	15.4	0.9	1.5	20.2	819
RE-2X(St)YSWAY-TiMF 8T0.75	8x3x0.75	0.38	1.2	16.7	0.9	1.6	21.7	941
RE-2X(St)YSWAY-TiMF 10T0.75	10x3x0.75	0.38	1.3	19.0	1.25	1.6	24.7	1103
RE-2X(St)YSWAY-TiMF 12T0.75	12x3x0.75	0.38	1.3	19.7	1.25	1.7	25.6	1176
RE-2X(St)YSWAY-TiMF 16T0.75	16x3x0.75	0.38	1.4	22.5	1.25	1.7	28.4	1439
RE-2X(St)YSWAY-TiMF 20T0.75	20x3x0.75	0.38	1.5	24.9	1.25	1.8	31.0	1804
RE-2X(St)YSWAY-TiMF 24T0.75	24x3x0.75	0.38	1.6	27.2	1.25	1.9	33.5	2164
1.0mm^2, Multi-striple								
RE-2X(St)YSWAY-TiMF 2T1.0	2x3x1.0	0.4	1.0	11.5	0.9	1.4	16.1	447
RE-2X(St)YSWAY-TiMF 4T1.0	4x3x1.0	0.4	1.1	13.4	0.9	1.5	18.2	579
RE-2X(St)YSWAY-TiMF 5T1.0	5x3x1.0	0.4	1.1	14.8	0.9	1.5	19.6	688

Caledonian Cable Code	RE-2X(St)YSWAY-TiMF							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2X(St)YSWAY-TiMF 6T1.0	6x3x1.0	0.4	1.2	16.9	0.9	1.5	21.7	913
RE-2X(St)YSWAY-TiMF 8T1.0	8x3x1.0	0.4	1.2	18.1	1.25	1.6	23.8	1033
RE-2X(St)YSWAY-TiMF 10T1.0	10x3x1.0	0.4	1.3	20.7	1.25	1.7	26.6	1277
RE-2X(St)YSWAY-TiMF 12T1.0	12x3x1.0	0.4	1.3	21.4	1.25	1.7	27.3	1380
RE-2X(St)YSWAY-TiMF 16T1.0	16x3x1.0	0.4	1.4	24.4	1.25	1.7	30.3	1686
RE-2X(St)YSWAY-TiMF 20T1.0	20x3x1.0	0.4	1.5	27.1	1.25	1.8	33.2	2200
RE-2X(St)YSWAY-TiMF 24T1.0	24x3x1.0	0.4	1.6	29.6	1.6	1.9	36.6	2504
1.3mm^2, Multi-striple								
RE-2X(St)YSWAY-TiMF 2T1.3	2x3x1.3	0.45	1.1	12.8	0.9	1.5	17.6	532
RE-2X(St)YSWAY-TiMF 4T1.3	4x3x1.3	0.45	1.1	14.7	0.9	1.5	19.5	684
RE-2X(St)YSWAY-TiMF 5T1.3	5x3x1.3	0.45	1.2	16.5	0.9	1.6	21.5	924
RE-2X(St)YSWAY-TiMF 6T1.3	6x3x1.3	0.45	1.3	18.8	1.25	1.6	24.5	1089
RE-2X(St)YSWAY-TiMF 8T1.3	8x3x1.3	0.45	1.3	20.1	1.25	1.7	26.0	1249
RE-2X(St)YSWAY-TiMF 10T1.3	10x3x1.3	0.45	1.4	23.0	1.25	1.8	29.1	1482
RE-2X(St)YSWAY-TiMF 12T1.3	12x3x1.3	0.45	1.5	24.0	1.25	1.8	30.1	1592
RE-2X(St)YSWAY-TiMF 16T1.3	16x3x1.3	0.45	1.6	27.4	1.25	1.9	33.7	2222
RE-2X(St)YSWAY-TiMF 20T1.3	20x3x1.3	0.45	1.7	30.4	1.6	2.0	37.6	2592
RE-2X(St)YSWAY-TiMF 24T1.3	24x3x1.3	0.45	1.8	33.1	1.6	2.0	40.3	2957
1.5mm^2, Multi-striple								
RE-2X(St)YSWAY-TiMF 2T1.5	2x3x1.5	0.45	1.1	13.2	0.9	1.5	18.0	531
RE-2X(St)YSWAY-TiMF 4T1.5	4x3x1.5	0.45	1.2	15.4	0.9	1.5	20.2	817
RE-2X(St)YSWAY-TiMF 5T1.5	5x3x1.5	0.45	1.2	17.1	1.25	1.6	22.8	998
RE-2X(St)YSWAY-TiMF 6T1.5	6x3x1.5	0.45	1.3	19.5	1.25	1.6	25.2	1162
RE-2X(St)YSWAY-TiMF 8T1.5	8x3x1.5	0.45	1.4	21.1	1.25	1.7	27.0	1304
RE-2X(St)YSWAY-TiMF 10T1.5	10x3x1.5	0.45	1.5	24.1	1.25	1.8	30.2	1541
RE-2X(St)YSWAY-TiMF 12T1.5	12x3x1.5	0.45	1.5	24.9	1.25	1.8	31.0	1952
RE-2X(St)YSWAY-TiMF 16T1.5	16x3x1.5	0.45	1.6	28.4	1.6	1.9	35.4	2384
RE-2X(St)YSWAY-TiMF 20T1.5	20x3x1.5	0.45	1.7	31.6	1.6	2.0	38.8	2795

Caledonian Cable Code	RE-2X(St)YSWAY-TiMF							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2X(St)YSWAY-TiMF 24T1.5	24x3x1.5	0.45	1.8	34.4	1.6	2.1	41.8	3093

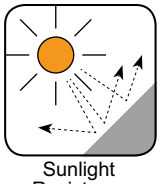
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

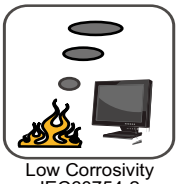
Standard


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


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

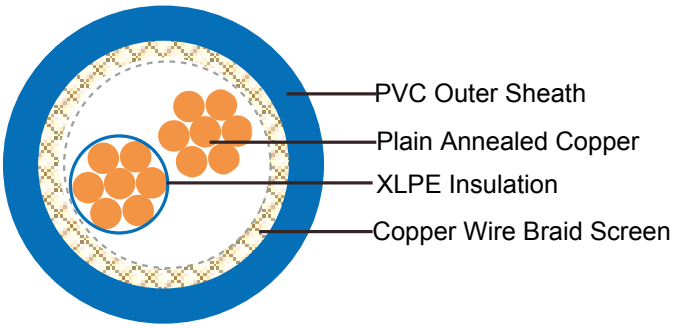

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

XLPE Insulated, PVC Sheathed, CWB Screened Instrumentation Cables (Single Pair)

RE-2X(C)Y 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per 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 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, 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
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	0.4	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)		pF/m(Max.)	250				
Capacitance unbalance(1 kHz)		pF/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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(C)Y		
	No. of Pairs x2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm^2	Kg/km	Kg/km
RE-2X(C)Y 1P0.5	1x2x0.50	8.3	110
RE-2X(C)Y 1P0.75	1x2x0.75	8.7	119
RE-2X(C)Y 1P1.0	1x2x1.0	9.4	135
RE-2X(C)Y 1P1.3	1x2x1.3	9.7	140

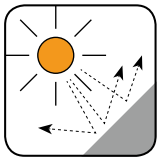
Note : Other conductor sizes & core configurations are available upon request.

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


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

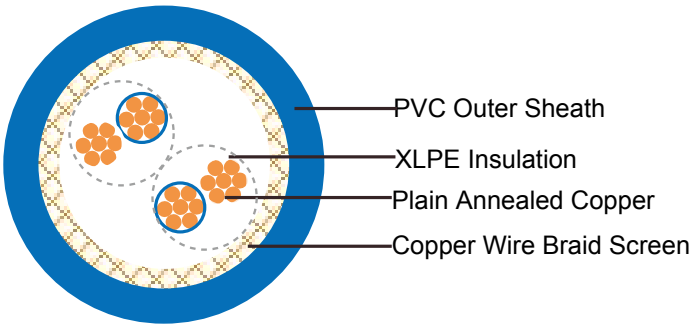

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

XLPE Insulated, PVC Sheathed, CWB Screened Instrumentation Cables (Multipair)

RE-2X(C)Y 90°C / 300V



APPLICATION

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

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per 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 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, 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
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	0.4	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)		pF/m(Max.)	250				
Capacitance unbalance(1 kHz)		pF/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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(C)Y		
	No. of Pairs x2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm^2	Kg/km	Kg/km
0.5mm^2, Multipair			
RE-2X(C)Y 2P0.5	2x2x0.50	10.7	143
RE-2X(C)Y 3P0.5	3x2x0.50	11.1	159
RE-2X(C)Y 4P0.5	4x2x0.50	11.9	181
RE-2X(C)Y 6P0.5	6x2x0.50	13.6	230
RE-2X(C)Y 8P0.5	8x2x0.50	14.2	264
RE-2X(C)Y 12P0.5	12x2x0.50	16.4	343
RE-2X(C)Y 16P0.5	16x2x0.50	18.2	418
RE-2X(C)Y 20P0.5	20x2x0.50	19.7	487
RE-2X(C)Y 24P0.5	24x2x0.50	21.1	557
0.75mm^2, Multipair			
RE-2X(C)Y 2P0.75	2x2x0.75	11.4	160
RE-2X(C)Y 3P0.75	3x2x0.75	11.9	185
RE-2X(C)Y 4P0.75	4x2x0.75	12.7	214
RE-2X(C)Y 6P0.75	6x2x0.75	14.6	278
RE-2X(C)Y 8P0.75	8x2x0.75	15.4	324
RE-2X(C)Y 12P0.75	12x2x0.75	17.8	427
RE-2X(C)Y 16P0.75	16x2x0.75	19.8	526
RE-2X(C)Y 20P0.75	20x2x0.75	21.5	623
RE-2X(C)Y 24P0.75	24x2x0.75	23.1	714
1.0mm^2, Multipair			
RE-2X(C)Y 2P1.0	2x2x1.0	12.3	184
RE-2X(C)Y 3P1.0	3x2x1.0	12.8	214
RE-2X(C)Y 4P1.0	4x2x1.0	13.7	251
RE-2X(C)Y 6P1.0	6x2x1.0	15.6	326
RE-2X(C)Y 8P1.0	8x2x1.0	16.4	382
RE-2X(C)Y 12P1.0	12x2x1.0	19.0	511
RE-2X(C)Y 16P1.0	16x2x1.0	21.2	636
RE-2X(C)Y 20P1.0	20x2x1.0	23.5	775

Caledonian Cable Code	RE-2X(C)Y		
	No. of Pairs x2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm^2	Kg/km	Kg/km
RE-2X(C)Y 24P1.0	24x2x1.0	25.3	892
1.3mm^2, Multipair			
RE-2X(C)Y 2P1.3	2x2x1.3	12.9	204
RE-2X(C)Y 3P1.3	3x2x1.3	13.5	242
RE-2X(C)Y 4P1.3	4x2x1.3	14.5	285
RE-2X(C)Y 6P1.3	6x2x1.3	16.7	375
RE-2X(C)Y 8P1.3	8x2x1.3	17.4	444
RE-2X(C)Y 12P1.3	12x2x1.3	20.2	599
RE-2X(C)Y 16P1.3	16x2x1.3	22.6	750
RE-2X(C)Y 20P1.3	20x2x1.3	25.1	916
RE-2X(C)Y 24P1.3	24x2x1.3	27.0	1064

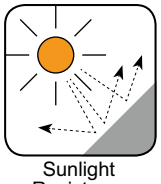
Note : Other conductor sizes & core configurations are available upon request.

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


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

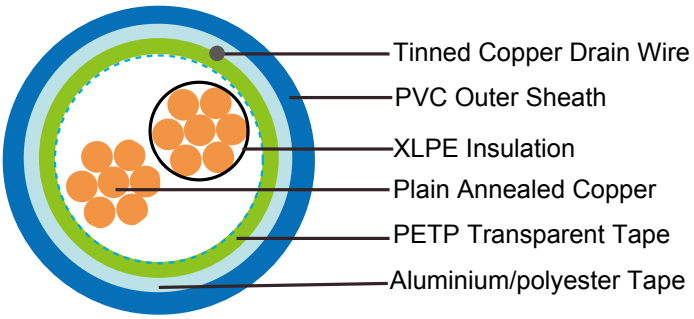

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

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

RE-2X(St)Y 90°C / 300V



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FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standardl.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per EN 50290-2-29.
Pairs: 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, 0.5mm².
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.

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PHYSICAL AND THERMAL PROPERTIES

Temperature Range During Operation (Fixed State): -30°C – +90°C
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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	0.4	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)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(St)Y				
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
RE-2X(St)Y 1P0.5	1x2x0.50	0.35	0.8	5.2	38
RE-2X(St)Y 1P0.75	1x2x0.75	0.38	0.8	5.6	49
RE-2X(St)Y 1P1.0	1x2x1.0	0.40	0.9	6.3	56
RE-2X(St)Y 1P1.3	1x2x1.3	0.45	0.9	6.8	65
RE-2X(St)Y 1P1.5	1x2x1.5	0.45	0.9	7.1	71

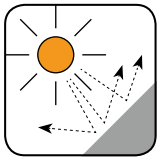
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

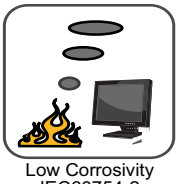
Standard


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


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

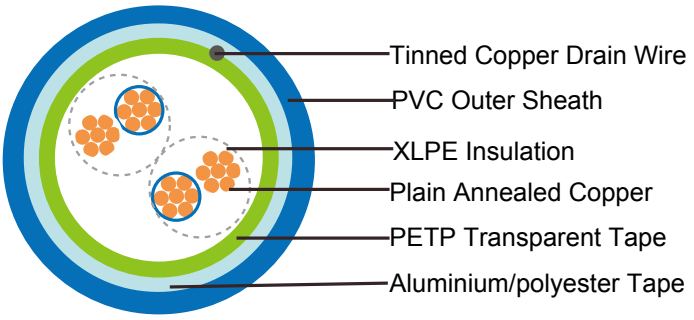

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

XLPE Insulated, PVC Sheathed & Overall Screened Instrumentation Cables (Multipair)

RE-2X(St)Y 90°C / 300V



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FIRE PERFORMANCE

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Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per EN 50290-2-29.
Pairs: Two insulated conductors uniformly twisted together with a lay not exceeding 100mm.
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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, 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): -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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(St)Y				
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
0.5mm^2, Multipair					
RE-2X(St)Y 2P0.5	2x2x0.5	0.35	0.9	7.6	66
RE-2X(St)Y 4P0.5	4x2x0.5	0.35	0.9	8.8	98
RE-2X(St)Y 5P0.5	5x2x0.5	0.35	1.0	9.8	112
RE-2X(St)Y 6P0.5	6x2x0.5	0.35	1.0	10.6	133
RE-2X(St)Y 8P0.5	8x2x0.5	0.35	1.0	11.3	161
RE-2X(St)Y 10P0.5	10x2x0.5	0.35	1.1	12.9	200
RE-2X(St)Y 12P0.5	12x2x0.5	0.35	1.1	13.5	242
RE-2X(St)Y 16P0.5	16x2x0.5	0.35	1.1	15.2	288
RE-2X(St)Y 20P0.5	20x2x0.5	0.35	1.2	16.9	376
RE-2X(St)Y 24P0.5	24x2x0.5	0.35	1.2	18.3	426
0.75mm^2, Multipair					
RE-2X(St)Y 2P0.75	2x2x0.75	0.38	0.9	8.5	87
RE-2X(St)Y 4P0.75	4x2x0.75	0.38	1.0	10.0	122
RE-2X(St)Y 5P0.75	5x2x0.75	0.38	1.0	10.9	154
RE-2X(St)Y 6P0.75	6x2x0.75	0.38	1.0	11.8	174
RE-2X(St)Y 8P0.75	8x2x0.75	0.38	1.1	12.8	213
RE-2X(St)Y 10P0.75	10x2x0.75	0.38	1.1	14.5	266
RE-2X(St)Y 12P0.75	12x2x0.75	0.38	1.1	15.1	304
RE-2X(St)Y 16P0.75	16x2x0.75	0.38	1.2	17.3	398
RE-2X(St)Y 20P0.75	20x2x0.75	0.38	1.3	19.2	478
RE-2X(St)Y 24P0.75	24x2x0.75	0.38	1.3	20.8	559
1.0mm^2, Multipair					
RE-2X(St)Y 2P1.0	2x2x1.0	0.4	0.9	9.2	101
RE-2X(St)Y 4P1.0	4x2x1.0	0.4	1.0	10.9	157
RE-2X(St)Y 5P1.0	5x2x1.0	0.4	1.0	11.9	194

Caledonian Cable Code	RE-2X(St)Y				
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
RE-2X(St)Y 6P1.0	6x2x1.0	0.4	1.0	13.0	223
RE-2X(St)Y 8P1.0	8x2x1.0	0.4	1.1	14.0	272
RE-2X(St)Y 10P1.0	10x2x1.0	0.4	1.1	15.9	334
RE-2X(St)Y 12P1.0	12x2x1.0	0.4	1.2	16.8	390
RE-2X(St)Y 16P1.0	16x2x1.0	0.4	1.2	19.0	511
RE-2X(St)Y 20P1.0	20x2x1.0	0.4	1.3	21.1	617
RE-2X(St)Y 24P1.0	24x2x1.0	0.4	1.4	23.1	749
1.3mm^2, Multipair					
RE-2X(St)Y 2P1.3	2x2x1.3	0.45	1.0	10.4	124
RE-2X(St)Y 4P1.3	4x2x1.3	0.45	1.0	12.0	184
RE-2X(St)Y 5P1.3	5x2x1.3	0.45	1.1	13.4	226
RE-2X(St)Y 6P1.3	6x2x1.3	0.45	1.1	14.6	289
RE-2X(St)Y 8P1.3	8x2x1.3	0.45	1.2	15.7	337
RE-2X(St)Y 10P1.3	10x2x1.3	0.45	1.2	17.9	411
RE-2X(St)Y 12P1.3	12x2x1.3	0.45	1.3	18.9	495
RE-2X(St)Y 16P1.3	16x2x1.3	0.45	1.3	21.4	651
RE-2X(St)Y 20P1.3	20x2x1.3	0.45	1.4	23.8	772
RE-2X(St)Y 24P1.3	24x2x1.3	0.45	1.5	25.9	933
1.5mm^2, Multipair					
RE-2X(St)Y 2P1.5	2x2x1.5	0.45	1.0	10.8	139*
RE-2X(St)Y 4P1.5	4x2x1.5	0.45	1.1	12.7	214
RE-2X(St)Y 5P1.5	5x2x1.5	0.45	1.1	14.0	259
RE-2X(St)Y 6P1.5	6x2x1.5	0.45	1.2	15.2	305
RE-2X(St)Y 8P1.5	8x2x1.5	0.45	1.2	16.4	385
RE-2X(St)Y 10P1.5	10x2x1.5	0.45	1.3	18.8	460
RE-2X(St)Y 12P1.5	12x2x1.5	0.45	1.3	19.7	558
RE-2X(St)Y 16P1.5	16x2x1.5	0.45	1.4	22.5	725

Caledonian Cable Code	RE-2X(St)Y				
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
RE-2X(St)Y 20P1.5	20x2x1.5	0.45	1.5	25.0	881
RE-2X(St)Y 24P1.5	24x2x1.5	0.45	1.5	27.1	147

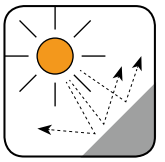
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

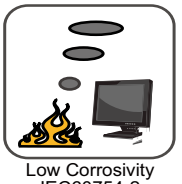
Standard


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


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

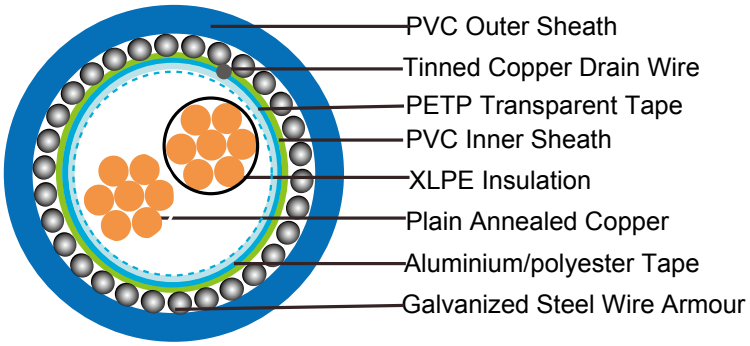

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

XLPE Insulated, PVC Sheathed & Overall Screened, Armoured Instrumentation Cables (Single Pair)

RE-2X(St)YSWAY 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per EN 50290-2-29.
Pairs: 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, 0.5mm².

Inner Sheath: Thermoplastic PVC compound as per EN 50290-2-22.
Amouring: Galvanized steel wire armour.
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, 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): -5°C – +50°C
Minimum Bending Radius: 6 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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(St)YSWAY							
	No. of Pairs x2xCross 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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
RE-2X(St)YSWAY 1P0.5	1x2x0.50	0.35	0.8	5.2	0.9	1.3	9.6	179
RE-2X(St)YSWAY 1P0.75	1x2x0.75	0.38	0.8	5.6	0.9	1.3	10.0	199
RE-2X(St)YSWAY 1P1.0	1x2x1.0	0.40	0.9	6.3	0.9	1.3	10.7	220
RE-2X(St)YSWAY 1P1.3	1x2x1.3	0.45	0.9	6.8	0.9	1.3	11.2	241
RE-2X(St)YSWAY 1P1.5	1x2x1.5	0.45	0.9	7.1	0.9	1.3	11.5	259

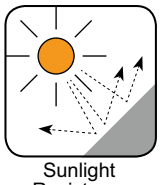
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

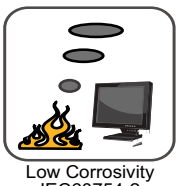
Standard


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


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

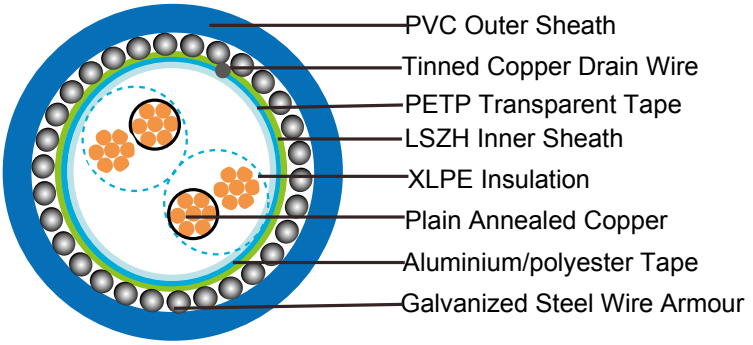

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

XLPE Insulated, PVC Sheathed & Overall Screened, Armoured Instrumentation Cables (Multipair)

RE-2X(St)YSWAY 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per EN 50290-2-29.
Pairs: 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, 0.5mm².

Inner Sheath: Thermoplastic PVC compound as per EN 50290-2-22.
Amouring: Galvanized steel wire armour.
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, 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): -5°C – +50°C
Minimum Bending Radius: 10 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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(St)YSWAY							
	No. of Pairs x2xCross 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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multipair								
RE-2X(St)YSWAY 2P0.5	2x2x0.5	0.35	0.9	7.6	0.9	1.3	12.0	269
RE-2X(St)YSWAY 4P0.5	4x2x0.5	0.35	0.9	8.8	0.9	1.4	13.4	325
RE-2X(St)YSWAY 5P0.5	5x2x0.5	0.35	1.0	9.8	0.9	1.4	14.4	375
RE-2X(St)YSWAY 6P0.5	6x2x0.5	0.35	1.0	10.6	0.9	1.4	15.2	423
RE-2X(St)YSWAY 8P0.5	8x2x0.5	0.35	1.0	11.3	0.9	1.4	15.9	473
RE-2X(St)YSWAY 10P0.5	10x2x0.5	0.35	1.1	12.9	0.9	1.5	17.7	521
RE-2X(St)YSWAY 12P0.5	12x2x0.5	0.35	1.1	13.5	0.9	1.5	18.3	592
RE-2X(St)YSWAY 16P0.5	16x2x0.5	0.35	1.1	15.2	0.9	1.5	20.0	823
RE-2X(St)YSWAY 20P0.5	20x2x0.5	0.35	1.2	16.9	0.9	1.6	21.9	920
RE-2X(St)YSWAY 24P0.5	24x2x0.5	0.35	1.2	18.3	1.25	1.6	24.0	1028
0.75mm^2, Multipair								
RE-2X(St)YSWAY 2P0.75	2x2x0.75	0.38	0.9	8.5	0.9	1.4	13.1	308
RE-2X(St)YSWAY 4P0.75	4x2x0.75	0.38	1.0	10.0	0.9	1.4	14.6	371
RE-2X(St)YSWAY 5P0.75	5x2x0.75	0.38	1.0	10.9	0.9	1.4	15.5	436
RE-2X(St)YSWAY 6P0.75	6x2x0.75	0.38	1.0	11.8	0.9	1.4	16.4	495
RE-2X(St)YSWAY 8P0.75	8x2x0.75	0.38	1.1	12.8	0.9	1.5	17.6	533
RE-2X(St)YSWAY 10P0.75	10x2x0.75	0.38	1.1	14.5	0.9	1.5	19.3	637
RE-2X(St)YSWAY 12P0.75	12x2x0.75	0.38	1.1	15.1	0.9	1.5	19.9	825
RE-2X(St)YSWAY 16P0.75	16x2x0.75	0.38	1.2	17.3	0.9	1.6	22.3	965
RE-2X(St)YSWAY 20P0.75	20x2x0.75	0.38	1.3	19.2	1.25	1.6	24.9	1116
RE-2X(St)YSWAY 24P0.75	24x2x0.75	0.38	1.3	20.8	1.25	1.6	26.7	1257
1.0mm^2, Multipair								
RE-2X(St)YSWAY 2P1.0	2x2x1.0	0.4	0.9	9.2	0.9	1.4	13.8	336
RE-2X(St)YSWAY 4P1.0	4x2x1.0	0.4	1.0	10.9	0.9	1.4	15.5	436
RE-2X(St)YSWAY 5P1.0	5x2x1.0	0.4	1.0	11.9	0.9	1.4	16.5	494
RE-2X(St)YSWAY 6P1.0	6x2x1.0	0.4	1.0	13.0	0.9	1.4	17.6	550

Caledonian Cable Code	RE-2X(St)YSWAY							
	No. of Pairs x2xCross 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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
RE-2X(St)YSWAY 8P1.0	8x2x1.0	0.4	1.1	14.0	0.9	1.5	18.8	633
RE-2X(St)YSWAY 10P1.0	10x2x1.0	0.4	1.1	15.9	0.9	1.5	20.7	859
RE-2X(St)YSWAY 12P1.0	12x2x1.0	0.4	1.2	16.8	0.9	1.5	21.6	972
RE-2X(St)YSWAY 16P1.0	16x2x1.0	0.4	1.2	19.0	1.25	1.6	24.7	1171
RE-2X(St)YSWAY 20P1.0	20x2x1.0	0.4	1.3	21.1	1.25	1.7	27.0	1316
RE-2X(St)YSWAY 24P1.0	24x2x1.0	0.4	1.4	23.1	1.25	1.7	29.0	1520
1.3mm^2, Multipair								
RE-2X(St)YSWAY 2P1.3	2x2x1.3	0.45	1.0	10.4	0.9	1.4	15.0	382
RE-2X(St)YSWAY 4P1.3	4x2x1.3	0.45	1.0	12.0	0.9	1.4	16.6	510
RE-2X(St)YSWAY 5P1.3	5x2x1.3	0.45	1.1	13.4	0.9	1.5	18.2	595
RE-2X(St)YSWAY 6P1.3	6x2x1.3	0.45	1.1	14.6	0.9	1.5	19.4	657
RE-2X(St)YSWAY 8P1.3	8x2x1.3	0.45	1.2	15.7	0.9	1.5	20.5	869
RE-2X(St)YSWAY 10P1.3	10x2x1.3	0.45	1.2	17.9	0.9	1.6	23.6	1011
RE-2X(St)YSWAY 12P1.3	12x2x1.3	0.45	1.3	18.9	1.25	1.6	24.6	1110
RE-2X(St)YSWAY 16P1.3	16x2x1.3	0.45	1.3	21.4	1.25	1.7	27.3	1361
RE-2X(St)YSWAY 20P1.3	20x2x1.3	0.45	1.4	23.8	1.25	1.8	29.9	1599
RE-2X(St)YSWAY 24P1.3	24x2x1.3	0.45	1.5	25.9	1.25	1.8	32.0	1960
1.5mm^2, Multipair								
RE-2X(St)YSWAY 2P1.5	2x2x1.5	0.45	1.0	10.8	0.9	1.4	15.4	419
RE-2X(St)YSWAY 4P1.5	4x2x1.5	0.45	1.1	12.7	0.9	1.5	17.5	544
RE-2X(St)YSWAY 5P1.5	5x2x1.5	0.45	1.1	14.0	0.9	1.5	18.8	627
RE-2X(St)YSWAY 6P1.5	6x2x1.5	0.45	1.2	15.2	0.9	1.5	20.0	833
RE-2X(St)YSWAY 8P1.5	8x2x1.5	0.45	1.2	16.4	0.9	1.6	21.4	943
RE-2X(St)YSWAY 10P1.5	10x2x1.5	0.45	1.3	18.8	1.25	1.6	24.5	1095
RE-2X(St)YSWAY 12P1.5	12x2x1.5	0.45	1.3	19.7	1.25	1.7	25.6	1197
RE-2X(St)YSWAY 16P1.5	16x2x1.5	0.45	1.4	22.5	1.25	1.7	28.4	1511
RE-2X(St)YSWAY 20P1.5	20x2x1.5	0.45	1.5	25.0	1.25	1.8	31.1	1968
RE-2X(St)YSWAY 24P1.5	24x2x1.5	0.45	1.5	27.1	1.25	1.8	33.2	2247

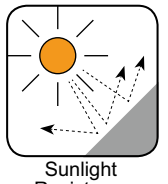
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

Standard

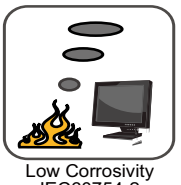
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

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



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

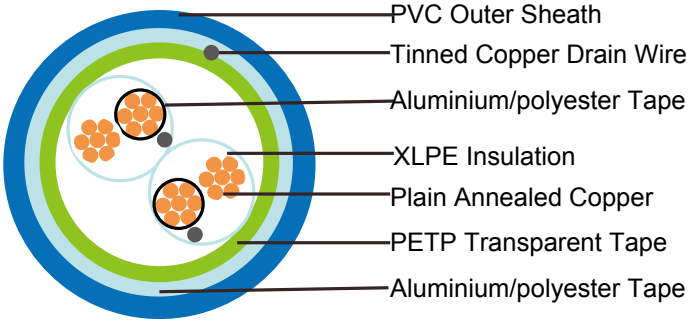
Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Oil Resistance
ICEA S-73-532

XLPE Insulated, PVC Sheathed, Individual and Overall Screened Instrumentation Cables (Multipair)

RE-2X(St)Y PiMF 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per EN 50290-2-29.
Pairs: Two insulated conductors uniformly twisted together with a lay not exceeding 100mm.
Individual Screen: Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm².
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, 0.5mm².
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, 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): -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	0.4	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)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(St)Y PiMF				
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
0.5mm^2, Multipair					
RE-2X(St)Y PiMF 2P0.5	2x2x0.5	0.35	0.9	8.7	85
RE-2X(St)Y PiMF 4P0.5	3x2x0.5	0.35	1.0	10.2	120
RE-2X(St)Y PiMF 5P0.5	4x2x0.5	0.35	1.0	11.2	145
RE-2X(St)Y PiMF 6P0.5	5x2x0.5	0.35	1.0	12.1	170
RE-2X(St)Y PiMF 8P0.5	8x2x0.5	0.35	1.1	13.1	214
RE-2X(St)Y PiMF 10P0.5	10x2x0.5	0.35	1.2	15.1	265
RE-2X(St)Y PiMF 12P0.5	12x2x0.5	0.35	1.2	15.7	286
RE-2X(St)Y PiMF 16P0.5	16x2x0.5	0.35	1.2	17.8	380
RE-2X(St)Y PiMF 20P0.5	20x2x0.5	0.35	1.3	19.7	475
RE-2X(St)Y PiMF 24P0.5	24x2x0.5	0.35	1.4	21.5	561
0.75mm^2, Multipair					
RE-2X(St)Y PiMF 2P0.75	2x2x0.75	0.38	1.0	9.7	101
RE-2X(St)Y PiMF 4P0.75	4x2x0.75	0.38	1.0	11.2	159
RE-2X(St)Y PiMF 5P0.75	5x2x0.75	0.38	1.1	12.5	183
RE-2X(St)Y PiMF 6P0.75	6x2x0.75	0.38	1.1	13.6	215
RE-2X(St)Y PiMF 8P0.75	8x2x0.75	0.38	1.1	14.4	272
RE-2X(St)Y PiMF 10P0.75	10x2x0.75	0.38	1.2	16.6	333
RE-2X(St)Y PiMF 12P0.75	12x2x0.75	0.38	1.2	17.4	383
RE-2X(St)Y PiMF 16P0.75	16x2x0.75	0.38	1.3	19.8	492
RE-2X(St)Y PiMF 20P0.75	20x2x0.75	0.38	1.4	22.0	603
RE-2X(St)Y PiMF 24P0.75	24x2x0.75	0.38	1.5	24.0	704
1.0mm^2, Multipair					
RE-2X(St)Y PiMF 2P1.0	2x2x1.0	0.4	1.0	10.4	112
RE-2X(St)Y PiMF 4P1.0	4x2x1.0	0.4	1.0	12.1	179

Caledonian Cable Code	RE-2X(St)Y PiMF				
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
RE-2X(St)Y PiMF 5P1.0	5x2x1.0	0.4	1.1	13.5	220
RE-2X(St)Y PiMF 6P1.0	6x2x1.0	0.4	1.1	14.7	256
RE-2X(St)Y PiMF 8P1.0	8x2x1.0	0.4	1.2	15.8	323
RE-2X(St)Y PiMF 10P1.0	10x2x1.0	0.4	1.2	18.0	401
RE-2X(St)Y PiMF 12P1.0	12x2x1.0	0.4	1.3	19.0	454
RE-2X(St)Y PiMF 16P1.0	16x2x1.0	0.4	1.3	21.5	601
RE-2X(St)Y PiMF 20P1.0	20x2x1.0	0.4	1.4	23.9	719
RE-2X(St)Y PiMF 24P1.0	24x2x1.0	0.4	1.5	26.1	884
1.3mm^2, Multipair					
RE-2X(St)Y PiMF 2P1.3	2x2x1.3	0.45	1.0	11.4	153
RE-2X(St)Y PiMF 4P1.3	4x2x1.3	0.45	1.1	13.4	208
RE-2X(St)Y PiMF 5P1.3	5x2x1.3	0.45	1.1	14.8	263
RE-2X(St)Y PiMF 6P1.3	6x2x1.3	0.45	1.2	16.3	318
RE-2X(St)Y PiMF 8P1.3	8x2x1.3	0.45	1.3	17.6	406
RE-2X(St)Y PiMF 10P1.3	10x2x1.3	0.45	1.3	20.0	501
RE-2X(St)Y PiMF 12P1.3	12x2x1.3	0.45	1.4	21.1	552
RE-2X(St)Y PiMF 16P1.3	16x2x1.3	0.45	1.5	24.1	728
RE-2X(St)Y PiMF 20P1.3	20x2x1.3	0.45	1.6	26.8	892
RE-2X(St)Y PiMF 24P1.3	24x2x1.3	0.45	1.7	29.2	1067
1.5mm^2, Multipair					
RE-2X(St)Y PiMF 2P1.5	2x2x1.5	0.45	1.0	11.8	164
RE-2X(St)Y PiMF 4P1.5	4x2x1.5	0.45	1.1	13.9	235
RE-2X(St)Y PiMF 5P1.5	5x2x1.5	0.45	1.2	15.5	289
RE-2X(St)Y PiMF 6P1.5	6x2x1.5	0.45	1.2	16.9	366
RE-2X(St)Y PiMF 8P1.5	8x2x1.5	0.45	1.3	18.2	446
RE-2X(St)Y PiMF 10P1.5	10x2x1.5	0.45	1.4	21.0	565
RE-2X(St)Y PiMF 12P1.5	12x2x1.5	0.45	1.4	21.9	637

Caledonian Cable Code	RE-2X(St)Y PiMF				
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
RE-2X(St)Y PiMF 16P1.5	16x2x1.5	0.45	1.5	25.1	828
RE-2X(St)Y PiMF 20P1.5	20x2x1.5	0.45	1.6	27.8	1024
RE-2X(St)Y PiMF 24P1.5	24x2x1.5	0.45	1.7	30.4	1219

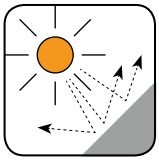
Note : Other conductor sizes & core configurations are available upon request.

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


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

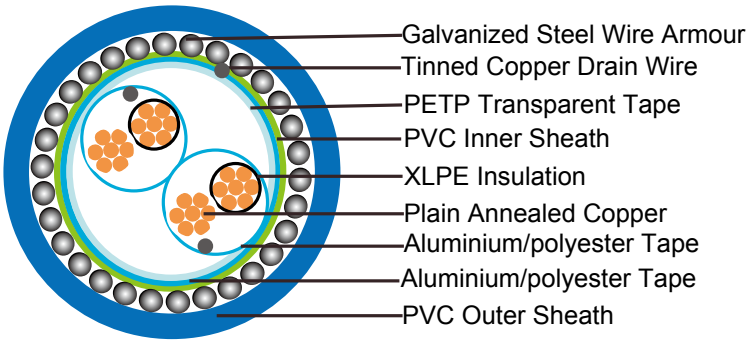

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

XLPE Insulated, PVC Sheathed, Individual and Overall Screened & Armoured Instrumentation Cables (Multipair)

RE-2X(St)YSWAY PiMF 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per EN 50290-2-29.
Pairs: Two insulated conductors uniformly twisted together with a lay not exceeding 100mm.
Individual Screen: Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm².

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, 0.5mm².
Inner Sheath: PVC compound as per EN 50290-2-22.
Amouring: Galvanized steel wire armour.
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, 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
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	0.4	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)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2X(St)YSWAY PiMF							
	No. of Pairs x2xCross 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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multipair								
RE-2X(St)YSWAY PiMF 2P0.5	2x2x0.5	0.35	0.9	8.7	0.9	1.4	13.3	311
RE-2X(St)YSWAY PiMF 4P0.5	4x2x0.5	0.35	1.0	10.2	0.9	1.4	14.8	373
RE-2X(St)YSWAY PiMF 5P0.5	5x2x0.5	0.35	1.0	11.2	0.9	1.4	15.8	451
RE-2X(St)YSWAY PiMF 6P0.5	6x2x0.5	0.35	1.0	12.1	0.9	1.6	16.9	483
RE-2X(St)YSWAY PiMF 8P0.5	8x2x0.5	0.35	1.1	13.1	0.9	1.6	17.9	537
RE-2X(St)YSWAY PiMF 10P0.5	10x2x0.5	0.35	1.2	15.1	0.9	1.5	19.9	781
RE-2X(St)YSWAY PiMF 12P0.5	12x2x0.5	0.35	1.2	15.7	0.9	1.5	20.5	804
RE-2X(St)YSWAY PiMF 16P0.5	16x2x0.5	0.35	1.2	17.8	1.25	1.6	23.5	968
RE-2X(St)YSWAY PiMF 20P0.5	20x2x0.5	0.35	1.3	19.7	1.25	1.7	25.6	1143
RE-2X(St)YSWAY PiMF 24P0.5	24x2x0.5	0.35	1.4	21.5	1.25	1.7	27.4	1264
0.75mm^2, Multipair								
RE-2X(St)YSWAY PiMF 2P0.75	2x2x0.75	0.38	1.0	9.7	0.9	1.4	14.3	342
RE-2X(St)YSWAY PiMF 4P0.75	4x2x0.75	0.38	1.0	11.2	0.9	1.4	15.8	439
RE-2X(St)YSWAY PiMF 5P0.75	5x2x0.75	0.38	1.1	12.5	0.9	1.5	17.3	496
RE-2X(St)YSWAY PiMF 6P0.75	6x2x0.75	0.38	1.1	13.6	0.9	1.5	18.4	578
RE-2X(St)YSWAY PiMF 8P0.75	8x2x0.75	0.38	1.1	14.4	0.9	1.5	19.2	664
RE-2X(St)YSWAY PiMF 10P0.75	10x2x0.75	0.38	1.2	16.6	1.25	1.6	22.3	876
RE-2X(St)YSWAY PiMF 12P0.75	12x2x0.75	0.38	1.2	17.4	1.25	1.6	23.1	942
RE-2X(St)YSWAY PiMF 16P0.75	16x2x0.75	0.38	1.3	19.8	1.25	1.7	25.7	1130
RE-2X(St)YSWAY PiMF 20P0.75	20x2x0.75	0.38	1.4	22.0	1.25	1.7	27.9	1325
RE-2X(St)YSWAY PiMF 24P0.75	24x2x0.75	0.38	1.5	24.0	1.25	1.8	30.1	1490
1.0mm^2, Multipair								
RE-2X(St)YSWAY PiMF 2P1.0	2x2x1.0	0.4	1.0	10.4	0.9	1.4	15.0	382
RE-2X(St)YSWAY PiMF 4P1.0	4x2x1.0	0.4	1.0	12.1	0.9	1.4	16.7	487

Caledonian Cable Code	RE-2X(St)YSWAY PiMF							
	No. of Pairs x2xCross 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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
RE-2X(St)YSWAY PiMF 5P1.0	5x2x1.0	0.4	1.1	13.5	0.9	1.5	18.3	566
RE-2X(St)YSWAY PiMF 6P1.0	6x2x1.0	0.4	1.1	14.7	0.9	1.5	19.5	641
RE-2X(St)YSWAY PiMF 8P1.0	8x2x1.0	0.4	1.2	15.8	0.9	1.5	20.6	718
RE-2X(St)YSWAY PiMF 10P1.0	10x2x1.0	0.4	1.2	18.0	1.25	1.6	23.7	994
RE-2X(St)YSWAY PiMF 12P1.0	12x2x1.0	0.4	1.3	19.0	1.25	1.7	24.7	1083
RE-2X(St)YSWAY PiMF 16P1.0	16x2x1.0	0.4	1.3	21.5	1.25	1.7	27.4	1361
RE-2X(St)YSWAY PiMF 20P1.0	20x2x1.0	0.4	1.4	23.9	1.25	1.7	29.8	1510
RE-2X(St)YSWAY PiMF 24P1.0	24x2x1.0	0.4	1.5	26.1	1.25	1.8	32.2	1902
1.3mm^2, Multipair								
RE-2X(St)YSWAY PiMF 2P1.3	2x2x1.3	0.45	1.0	11.4	0.9	1.4	16.0	452
RE-2X(St)YSWAY PiMF 4P1.3	4x2x1.3	0.45	1.1	13.4	0.9	1.5	18.2	576
RE-2X(St)YSWAY PiMF 5P1.3	5x2x1.3	0.45	1.1	14.8	0.9	1.5	19.6	647
RE-2X(St)YSWAY PiMF 6P1.3	6x2x1.3	0.45	1.2	16.3	0.9	1.6	21.3	857
RE-2X(St)YSWAY PiMF 8P1.3	8x2x1.3	0.45	1.3	17.6	1.25	1.6	23.3	980
RE-2X(St)YSWAY PiMF 10P1.3	10x2x1.3	0.45	1.3	20.0	1.25	1.7	25.9	1195
RE-2X(St)YSWAY PiMF 12P1.3	12x2x1.3	0.45	1.4	21.1	1.25	1.7	27.0	1256
RE-2X(St)YSWAY PiMF 16P1.3	16x2x1.3	0.45	1.5	24.1	1.25	1.8	30.2	1562
RE-2X(St)YSWAY PiMF 20P1.3	20x2x1.3	0.45	1.6	26.8	1.25	1.9	33.1	1958
RE-2X(St)YSWAY PiMF 24P1.3	24x2x1.3	0.45	1.7	29.2	1.25	2.0	36.4	2251
1.5mm^2, Multipair								
RE-2X(St)YSWAY PiMF 2P1.5	2x2x1.5	0.45	1.0	11.8	0.9	1.5	16.6	475
RE-2X(St)YSWAY PiMF 4P1.5	4x2x1.5	0.45	1.1	13.9	0.9	1.5	18.7	599
RE-2X(St)YSWAY PiMF 5P1.5	5x2x1.5	0.45	1.2	15.5	0.9	1.5	20.3	818
RE-2X(St)YSWAY PiMF 6P1.5	6x2x1.5	0.45	1.2	16.9	1.25	1.6	22.6	940
RE-2X(St)YSWAY PiMF 8P1.5	8x2x1.5	0.45	1.3	18.2	1.25	1.7	24.1	1037
RE-2X(St)YSWAY PiMF 10P1.5	10x2x1.5	0.45	1.4	21.0	1.25	1.7	26.9	1273
RE-2X(St)YSWAY PiMF 12P1.5	12x2x1.5	0.45	1.4	21.9	1.25	1.7	27.8	1353

Caledonian Cable Code	RE-2X(St)YSWAY PiMF							
	No. of Pairs x2xCross 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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
RE-2X(St)YSWAY PiMF 16P1.5	16x2x1.5	0.45	1.5	25.1	1.25	1.8	31.2	1932
RE-2X(St)YSWAY PiMF 20P1.5	20x2x1.5	0.45	1.6	27.8	1.25	1.9	34.8	2224
RE-2X(St)YSWAY PiMF 24P1.5	24x2x1.5	0.45	1.7	30.4	1.25	2.0	37.6	2541

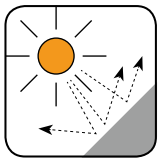
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

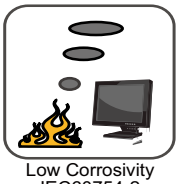
Standard


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


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

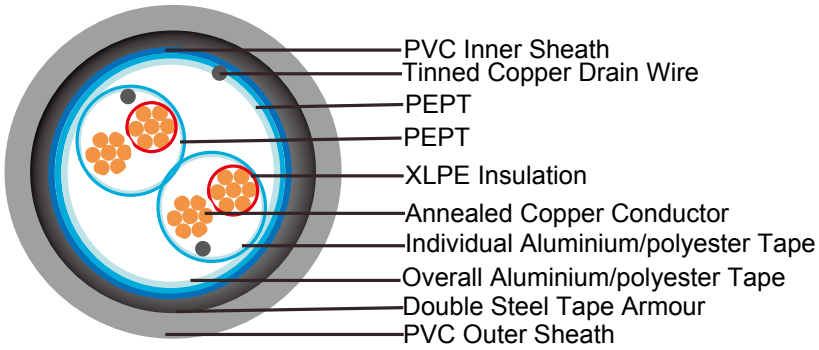

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

XLPE Insulated, PVC Sheathed, Individual and Overall Screened & Double Steel Tape Armoured Instrumentation Cables (Multipair)

RE-2X(St)YDSTAY PiMF 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2=*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: Extruded cross-linked XLPE compound as per EN 50290-2-29.
Pairs: Two insulated conductors uniformly twisted together with a lay not exceeding 100mm.
Binder tape: Polyester (PEPT) Tape.
Individual Screen: Aluminium/polyester tape is applied over the laid up pairs metallic side down in

contact with tinned copper drain wire, 0.5mm², covered with extruded PVC.
Binder tape: Polyester (PEPT) Tape.
Overall Screen: Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm².
Inner Sheath: PVC compound as per EN 50290-2-22.
Amouring: Double steel tape armour.
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: Red / White.
Outer Sheath: Gray.

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: 10 X Overall Diameter
Sunlight Resistance: UL 1581 section 1200
Oil Resistance: ASTM No: 2 (7 HRS 90°C)

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				
	Individual conductors	1G				
	Individual screens	1M				
Mutual Capacitance (1 kHz)	pF/m(Max.)	250				
Inductance	mH/km (Max.)	1				
L / R (ratio) (max.)	µH/Ω	25	25	25	40	40
Test Voltage	V (1min)					
	AC	2000				
	DC	3000				

CONSTRUCTION PARAMETERS

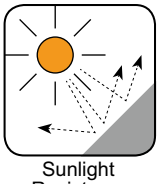
Caledonian Cable Code	RE-2X(St)YDSTAY PiMF								
	No. of Pairs x2x Cross Section	Nominal Insulation Thick -ness	Nominal Inner Sheath Thick -ness	Nominal Overall Diameter Over Inner Sheath	Nominal Armour Steel Tape Thick -ness	Nominal Overall Diameter Over Armour	Nominal Outer Sheath Thick -ness	Nominal Overall Diameter	Approx. Weight
	No.x2 xmm^2	mm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2X(St)YDSTAY PiMF 2P1.5	2x2x1.5	0.6	1.2	14.0	0.2	14.8	1.5	17.8	390

Rated Voltage

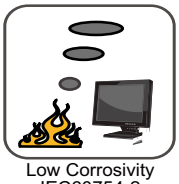
Standard


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


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

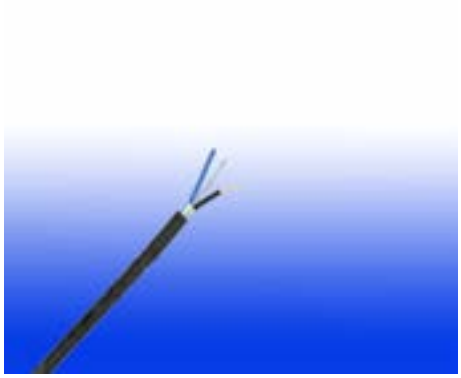

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

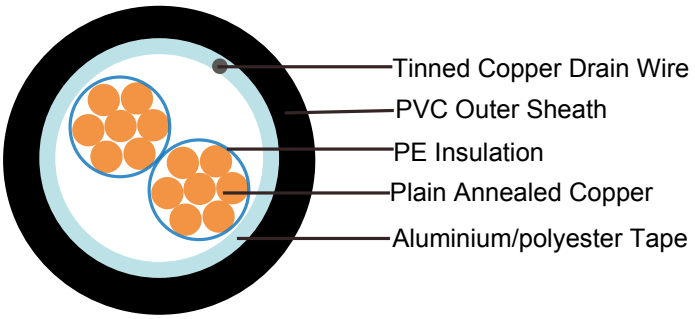
Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PE Insulated, PVC Sheathed & Overall Screened Instrumentation Cables (Multicore)

RE-2Y(St)Y 90°C / 500V





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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

500V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.
Overall Screen: Aluminium/polyester tape with 0.5mm^2 screen (7/0.3mm) tinned copper drain wire.
Inner Sheath(optional): PVC compound.
Armouring(optional): Galvanised steel wire.
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 / Blue, continuously numbered on blue core(1, 2..) for wrapped conductor.
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	2.5
Insulation thickness (nominal)		mm	0.55	0.55	0.55	0.6	0.6	0.7
Conductor resistance (20°C)		Ω/km	36.0	24.5	18.1	13.9	12.1	7.4
Insulation resistance (20°C)		MΩ.km(Min.)	5000					
Mutual Capacitance (1 kHz)		pF/m(Max.)	250					
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500					
L / R (ratio) (max.)		μH/Ω	25	25	25	40	40	60
Operating voltage		V	500					
Test Voltage U_{rms}	Core to Core	V	2000					
	Core to Screen	V	2000					

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)Y				
	No. of Cores x1xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
0.5mm^2, Multicore					
RE-2Y(St)Y 2C0.5	2x1x0.5	0.55	0.9	6.2	45
RE-2Y(St)Y 3C0.5	3x1x0.5	0.55	0.9	6.5	53

Caledonian Cable Code	RE-2Y(St)Y				
	No. of Cores x1xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
RE-2Y(St)Y 4C0.5	4x1x0.5	0.55	0.9	7.0	60
RE-2Y(St)Y 5C0.5	5x1x0.5	0.55	0.9	7.6	71
RE-2Y(St)Y 8C0.5	8x1x0.5	0.55	1.0	9.1	95
RE-2Y(St)Y 10C0.5	10x1x0.5	0.55	1.0	10.4	122
RE-2Y(St)Y 12C0.5	12x1x0.5	0.55	1.0	10.7	145
RE-2Y(St)Y 14C0.5	14x1x0.5	0.55	1.0	11.3	162
RE-2Y(St)Y 16C0.5	16x1x0.5	0.55	1.1	11.8	180
RE-2Y(St)Y 20C0.5	20x1x0.5	0.55	1.1	13.3	214
RE-2Y(St)Y 24C0.5	24x1x0.5	0.55	1.1	14.7	258
RE-2Y(St)Y 27C0.5	27x1x0.5	0.55	1.2	15.0	282
RE-2Y(St)Y 30C0.5	30x1x0.5	0.55	1.2	15.7	308
RE-2Y(St)Y 37C0.5	37x1x0.5	0.55	1.2	16.9	372
RE-2Y(St)Y 40C0.5	40x1x0.5	0.55	1.2	17.6	398
0.75mm^2, Multicore					
RE-2Y(St)Y 2C0.75	2x1x0.75	0.55	0.9	6.5	
RE-2Y(St)Y 3C0.75	3x1x0.75	0.55	0.9	6.9	
RE-2Y(St)Y 4C0.75	4x1x0.75	0.55	0.9	7.4	
RE-2Y(St)Y 5C0.75	5x1x0.75	0.55	0.9	8.1	
RE-2Y(St)Y 8C0.75	8x1x0.75	0.55	1.0	9.7	
RE-2Y(St)Y 10C0.75	10x1x0.75	0.55	1.0	11.1	
RE-2Y(St)Y 12C0.75	12x1x0.75	0.55	1.0	11.5	
RE-2Y(St)Y 14C0.75	14x1x0.75	0.55	1.1	12.2	
RE-2Y(St)Y 16C0.75	16x1x0.75	0.55	1.1	12.9	
RE-2Y(St)Y 20C0.75	20x1x0.75	0.55	1.1	14.3	
RE-2Y(St)Y 24C0.75	24x1x0.75	0.55	1.2	16.0	
RE-2Y(St)Y 27C0.75	27x1x0.75	0.55	1.2	16.3	
RE-2Y(St)Y 30C0.75	30x1x0.75	0.55	1.2	16.9	
RE-2Y(St)Y 37C0.75	37x1x0.75	0.55	1.2	18.2	

Caledonian Cable Code	RE-2Y(St)Y				
	No. of Cores x1xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
RE-2Y(St)Y 40C0.75	40x1x0.75	0.55	1.3	19.1	
1.0mm^2, Multicore					
RE-2Y(St)Y 2C1.0	2x1x1.0	0.55	0.9	6.9	58
RE-2Y(St)Y 3C1.0	3x1x1.0	0.55	0.9	7.3	70
RE-2Y(St)Y 4C1.0	4x1x1.0	0.55	0.9	7.9	85
RE-2Y(St)Y 5C1.0	5x1x1.0	0.55	0.9	8.6	98
RE-2Y(St)Y 8C1.0	8x1x1.0	0.55	1.0	10.3	136
RE-2Y(St)Y 10C1.0	10x1x1.0	0.55	1.0	11.9	194
RE-2Y(St)Y 12C1.0	12x1x1.0	0.55	1.0	12.2	214
RE-2Y(St)Y 14C1.0	14x1x1.0	0.55	1.1	13.0	243
RE-2Y(St)Y 16C1.0	16x1x1.0	0.55	1.1	13.7	280
RE-2Y(St)Y 20C1.0	20x1x1.0	0.55	1.1	15.2	336
RE-2Y(St)Y 24C1.0	24x1x1.0	0.55	1.2	17.0	404
RE-2Y(St)Y 27C1.0	27x1x1.0	0.55	1.2	17.4	443
RE-2Y(St)Y 30C1.0	30x1x1.0	0.55	1.2	18.0	484
RE-2Y(St)Y 37C1.0	37x1x1.0	0.55	1.2	19.6	590
RE-2Y(St)Y 40C1.0	40x1x1.0	0.55	1.3	20.4	632
1.3mm^2, Multicore					
RE-2Y(St)Y 2C1.3	2x1x1.3	0.6	0.9	7.4	72
RE-2Y(St)Y 3C1.3	3x1x1.3	0.6	0.9	7.9	86
RE-2Y(St)Y 4C1.3	4x1x1.3	0.6	0.9	8.5	105
RE-2Y(St)Y 5C1.3	5x1x1.3	0.6	1.0	9.5	135
RE-2Y(St)Y 8C1.3	8x1x1.3	0.6	1.0	11.2	176
RE-2Y(St)Y 10C1.3	10x1x1.3	0.6	1.1	13.2	228
RE-2Y(St)Y 12C1.3	12x1x1.3	0.6	1.1	13.6	269
RE-2Y(St)Y 14C1.3	14x1x1.3	0.6	1.1	14.3	305
RE-2Y(St)Y 16C1.3	16x1x1.3	0.6	1.1	15.0	351
RE-2Y(St)Y 20C1.3	20x1x1.3	0.6	1.2	16.9	423

Caledonian Cable Code	RE-2Y(St)Y				
	No. of Cores x1xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
RE-2Y(St)Y 24C1.3	24x1x1.3	0.6	1.2	18.7	507
RE-2Y(St)Y 27C1.3	27x1x1.3	0.6	1.3	19.3	558
RE-2Y(St)Y 30C1.3	30x1x1.3	0.6	1.3	20.0	611
RE-2Y(St)Y 37C1.3	37x1x1.3	0.6	1.3	21.6	743
RE-2Y(St)Y 40C1.3	40x1x1.3	0.6	1.4	22.7	796
1.5mm^2, Multicore					
RE-2Y(St)Y 2C1.5	2x1x1.5	0.6	0.9	7.7	78
RE-2Y(St)Y 3C1.5	3x1x1.5	0.6	0.9	8.1	94
RE-2Y(St)Y 4C1.5	4x1x1.5	0.6	0.9	8.8	116
RE-2Y(St)Y 5C1.5	5x1x1.5	0.6	1.0	9.8	149
RE-2Y(St)Y 8C1.5	8x1x1.5	0.6	1.0	11.6	196
RE-2Y(St)Y 10C1.5	10x1x1.5	0.6	1.1	13.7	261
RE-2Y(St)Y 12C1.5	12x1x1.5	0.6	1.1	14.1	300
RE-2Y(St)Y 14C1.5	14x1x1.5	0.6	1.1	14.8	340
RE-2Y(St)Y 16C1.5	16x1x1.5	0.6	1.1	15.6	392
RE-2Y(St)Y 20C1.5	20x1x1.5	0.6	1.2	17.6	474
RE-2Y(St)Y 24C1.5	24x1x1.5	0.6	1.3	19.6	567
RE-2Y(St)Y 27C1.5	27x1x1.5	0.6	1.3	20.1	625
RE-2Y(St)Y 30C1.5	30x1x1.5	0.6	1.3	20.8	685
RE-2Y(St)Y 37C1.5	37x1x1.5	0.6	1.4	22.6	834
RE-2Y(St)Y 40C1.5	40x1x1.5	0.6	1.4	23.6	898
2.5mm^2, Multicore					
RE-2Y(St)Y 2C2.5	2x1x2.5	0.7	0.9	8.9	113
RE-2Y(St)Y 3C2.5	3x1x2.5	0.7	1.0	9.7	145
RE-2Y(St)Y 4C2.5	4x1x2.5	0.7	1.0	10.5	178
RE-2Y(St)Y 5C2.5	5x1x2.5	0.7	1.0	11.9	285
RE-2Y(St)Y 8C2.5	8x1x2.5	0.7	1.1	13.9	376
RE-2Y(St)Y 10C2.5	10x1x2.5	0.7	1.2	16.3	426

Caledonian Cable Code	RE-2Y(St)Y				
	No. of Cores x1xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
RE-2Y(St)Y 12C2.5	12x1x2.5	0.7	1.2	16.9	537
RE-2Y(St)Y 14C2.5	14x1x2.5	0.7	1.2	17.7	609
RE-2Y(St)Y 16C2.5	16x1x2.5	0.7	1.3	18.9	711
RE-2Y(St)Y 20C2.5	20x1x2.5	0.7	1.3	21.1	826
RE-2Y(St)Y 24C2.5	24x1x2.5	0.7	1.4	23.6	930
RE-2Y(St)Y 27C2.5	27x1x2.5	0.7	1.4	24.1	1040
RE-2Y(St)Y 30C2.5	30x1x2.5	0.7	1.5	25.2	1142
RE-2Y(St)Y 37C2.5	37x1x2.5	0.7	1.5	27.2	1392
RE-2Y(St)Y 40C2.5	40x1x2.5	0.7	1.6	28.5	1494

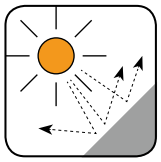
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

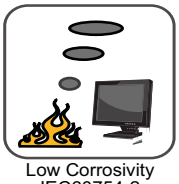
Standard


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


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

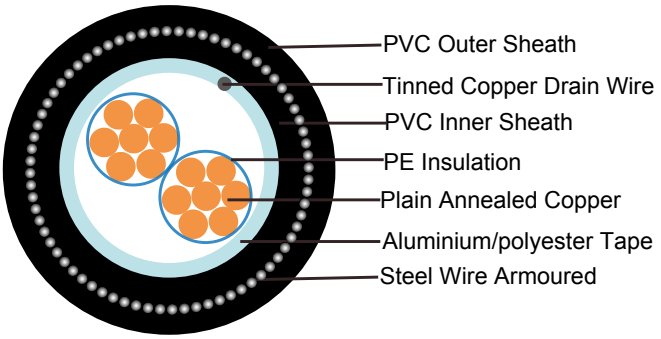

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PE Insulated, PVC Sheathed, Overall Screened & Armoured Instrumentation Cables (Multicore)

RE-2Y(St)YSWAY 90°C / 500V



APPLICATION

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Recommended for indoor and outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

500V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.
Overall Screen: Aluminium/polyester tape with 0.5mm^2 screen (7/0.3mm) tinned copper drain wire.

Inner Sheath: Thermoplastic PVC compound as per EN 50290-2-22.
Armouring: Galvanised steel wire.
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.

COLOUR CODE

Insulation: Black / Blue, continuously numbered on blue core(1, 2..) for wrapped conductor.
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: 10 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	2.5
Insulation thickness (nominal)		mm	0.55	0.55	0.55	0.6	0.6	0.7
Conductor resistance (20°C)		Ω/km	36.0	24.5	18.1	13.9	12.1	7.4
Insulation resistance (20°C)		MΩ.km(Min.)	5000	5000	5000	5000	5000	2000
Mutual Capacitance (1 kHz)		pF/m(Max.)	250					
Inductance		mH/km(Max.)	1	1	1	1	1	1
L / R (ratio) (max.)		μH/Ω	25	25	25	40	40	10
Operating voltage		V	500					
Test Voltage U_{rms}	Core to Core	V	2000					
	Core to Screen	V	2000					

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)YSWAY							
	No. of Cores x1xCross 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.x1xmm^2	mm	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multicore								

Caledonian Cable Code	RE-2Y(St)YSWAY							
	No. of Cores x1xCross 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.x1xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YSWAY 2C0.5	2x1x0.5	0.55	0.9	6.2	0.9	1.3	10.6	217
RE-2Y(St)YSWAY 3C0.5	3x1x0.5	0.55	0.9	6.5	0.9	1.3	10.9	230
RE-2Y(St)YSWAY 4C0.5	4x1x0.5	0.55	0.9	7.0	0.9	1.3	11.4	253
RE-2Y(St)YSWAY 5C0.5	5x1x0.5	0.55	0.9	7.6	0.9	1.3	12.0	283
RE-2Y(St)YSWAY 8C0.5	8x1x0.5	0.55	1.0	9.1	0.9	1.4	13.7	337
RE-2Y(St)YSWAY 10C0.5	10x1x0.5	0.55	1.0	10.4	0.9	1.4	15.0	399
RE-2Y(St)YSWAY 12C0.5	12x1x0.5	0.55	1.0	10.7	0.9	1.4	15.3	442
RE-2Y(St)YSWAY 14C0.5	14x1x0.5	0.55	1.0	11.3	0.9	1.4	15.9	474
RE-2Y(St)YSWAY 16C0.5	16x1x0.5	0.55	1.1	11.8	0.9	1.4	16.4	505
RE-2Y(St)YSWAY 20C0.5	20x1x0.5	0.55	1.1	13.3	0.9	1.5	18.1	569
RE-2Y(St)YSWAY 24C0.5	24x1x0.5	0.55	1.1	14.7	0.9	1.5	19.5	659
RE-2Y(St)YSWAY 27C0.5	27x1x0.5	0.55	1.2	15.0	0.9	1.5	19.8	808
RE-2Y(St)YSWAY 30C0.5	30x1x0.5	0.55	1.2	15.7	0.9	1.5	20.5	848
RE-2Y(St)YSWAY 37C0.5	37x1x0.5	0.55	1.2	16.9	0.9	1.6	21.9	963
RE-2Y(St)YSWAY 40C0.5	40x1x0.5	0.55	1.2	17.6	1.25	1.6	23.3	1014
0.75mm^2, Multicore								
RE-2Y(St)YSWAY 2C0.75	2x1x0.75	0.55	0.9	6.5	0.9	1.3	10.9	345
RE-2Y(St)YSWAY 3C0.75	3x1x0.75	0.55	0.9	6.9	0.9	1.3	11.3	420
RE-2Y(St)YSWAY 4C0.75	4x1x0.75	0.55	0.9	7.4	0.9	1.3	11.8	507
RE-2Y(St)YSWAY 5C0.75	5x1x0.75	0.55	0.9	8.1	0.9	1.4	12.7	609
RE-2Y(St)YSWAY 8C0.75	8x1x0.75	0.55	1.0	9.7	0.9	1.4	14.3	846
RE-2Y(St)YSWAY 10C0.75	10x1x0.75	0.55	1.0	11.1	0.9	1.4	15.7	1035
RE-2Y(St)YSWAY 12C0.75	12x1x0.75	0.55	1.0	11.5	0.9	1.4	16.1	1183
RE-2Y(St)YSWAY 14C0.75	14x1x0.75	0.55	1.1	12.2	0.9	1.5	17.0	1334
RE-2Y(St)YSWAY 16C0.75	16x1x0.75	0.55	1.1	12.9	0.9	1.5	17.7	1495
RE-2Y(St)YSWAY 20C0.75	20x1x0.75	0.55	1.1	14.3	0.9	1.5	19.1	1823
RE-2Y(St)YSWAY 24C0.75	24x1x0.75	0.55	1.2	16.0	0.9	1.5	20.8	2258
RE-2Y(St)YSWAY 27C0.75	27x1x0.75	0.55	1.2	16.3	0.9	1.6	21.3	2482
RE-2Y(St)YSWAY 30C0.75	30x1x0.75	0.55	1.2	16.9	0.9	1.6	21.9	2713
RE-2Y(St)YSWAY 37C0.75	37x1x0.75	0.55	1.2	18.2	1.25	1.6	23.9	3231

Caledonian Cable Code	RE-2Y(St)YSWAY							
	No. of Cores x1xCross 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.x1xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YSWAY 40C0.75	40x1x0.75	0.55	1.3	19.1	1.25	1.6	24.8	3483
1.0mm^2, Multicore								
RE-2Y(St)YSWAY 2C1.0	2x1x1.0	0.55	0.9	6.9	0.9	1.3	11.3	247
RE-2Y(St)YSWAY 3C1.0	3x1x1.0	0.55	0.9	7.3	0.9	1.3	11.7	270
RE-2Y(St)YSWAY 4C1.0	4x1x1.0	0.55	0.9	7.9	0.9	1.4	12.5	299
RE-2Y(St)YSWAY 5C1.0	5x1x1.0	0.55	0.9	8.6	0.9	1.4	13.2	342
RE-2Y(St)YSWAY 8C1.0	8x1x1.0	0.55	1.0	10.3	0.9	1.4	14.9	417
RE-2Y(St)YSWAY 10C1.0	10x1x1.0	0.55	1.0	11.9	0.9	1.4	16.5	514
RE-2Y(St)YSWAY 12C1.0	12x1x1.0	0.55	1.0	12.2	0.9	1.5	17.0	548
RE-2Y(St)YSWAY 14C1.0	14x1x1.0	0.55	1.1	13.0	0.9	1.5	17.8	590
RE-2Y(St)YSWAY 16C1.0	16x1x1.0	0.55	1.1	13.7	0.9	1.5	18.5	649
RE-2Y(St)YSWAY 20C1.0	20x1x1.0	0.55	1.1	15.2	0.9	1.5	20.0	864
RE-2Y(St)YSWAY 24C1.0	24x1x1.0	0.55	1.2	17.0	0.9	1.6	22.0	1005
RE-2Y(St)YSWAY 27C1.0	27x1x1.0	0.55	1.2	17.4	1.25	1.6	23.1	1058
RE-2Y(St)YSWAY 30C1.0	30x1x1.0	0.55	1.2	18.0	1.25	1.6	23.7	1113
RE-2Y(St)YSWAY 37C1.0	37x1x1.0	0.55	1.2	19.6	1.25	1.6	25.3	1271
RE-2Y(St)YSWAY 40C1.0	40x1x1.0	0.55	1.3	20.4	1.25	1.7	26.3	1351
1.3mm^2, Multicore								
RE-2Y(St)YSWAY 2C1.3	2x1x1.3	0.6	0.9	7.4	0.9	1.3	11.8	275
RE-2Y(St)YSWAY 3C1.3	3x1x1.3	0.6	0.9	7.9	0.9	1.3	12.3	301
RE-2Y(St)YSWAY 4C1.3	4x1x1.3	0.6	0.9	8.5	0.9	1.4	13.1	340
RE-2Y(St)YSWAY 5C1.3	5x1x1.3	0.6	1.0	9.5	0.9	1.4	14.1	383
RE-2Y(St)YSWAY 8C1.3	8x1x1.3	0.6	1.0	11.2	0.9	1.4	15.8	436
RE-2Y(St)YSWAY 10C1.3	10x1x1.3	0.6	1.1	13.2	0.9	1.5	18.0	578
RE-2Y(St)YSWAY 12C1.3	12x1x1.3	0.6	1.1	13.6	0.9	1.5	18.4	633
RE-2Y(St)YSWAY 14C1.3	14x1x1.3	0.6	1.1	14.3	0.9	1.5	19.1	698
RE-2Y(St)YSWAY 16C1.3	16x1x1.3	0.6	1.1	15.0	0.9	1.5	19.8	870
RE-2Y(St)YSWAY 20C1.3	20x1x1.3	0.6	1.2	16.9	0.9	1.6	21.9	1014
RE-2Y(St)YSWAY 24C1.3	24x1x1.3	0.6	1.2	18.7	1.25	1.6	24.4	1163
RE-2Y(St)YSWAY 27C1.3	27x1x1.3	0.6	1.3	19.3	1.25	1.6	25.0	1227
RE-2Y(St)YSWAY 30C1.3	30x1x1.3	0.6	1.3	20.0	1.25	1.6	25.7	1305

Caledonian Cable Code	RE-2Y(St)YSWAY							
	No. of Cores x1xCross 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.x1xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YSWAY 37C1.3	37x1x1.3	0.6	1.3	21.6	1.25	1.7	27.5	1504
RE-2Y(St)YSWAY 40C1.3	40x1x1.3	0.6	1.4	22.7	1.25	1.7	28.6	1584
1.5mm^2, Multicore								
RE-2Y(St)YSWAY 2C1.5	2x1x1.5	0.6	0.9	7.7	0.9	1.3	12.1	279
RE-2Y(St)YSWAY 3C1.5	3x1x1.5	0.6	0.9	8.1	0.9	1.4	12.7	312
RE-2Y(St)YSWAY 4C1.5	4x1x1.5	0.6	0.9	8.8	0.9	1.4	13.4	358
RE-2Y(St)YSWAY 5C1.5	5x1x1.5	0.6	1.0	9.8	0.9	1.4	14.4	403
RE-2Y(St)YSWAY 8C1.5	8x1x1.5	0.6	1.0	11.6	0.9	1.4	16.2	526
RE-2Y(St)YSWAY 10C1.5	10x1x1.5	0.6	1.1	13.7	0.9	1.5	18.5	630
RE-2Y(St)YSWAY 12C1.5	12x1x1.5	0.6	1.1	14.1	0.9	1.5	18.9	669
RE-2Y(St)YSWAY 14C1.5	14x1x1.5	0.6	1.1	14.8	0.9	1.5	19.6	742
RE-2Y(St)YSWAY 16C1.5	16x1x1.5	0.6	1.1	15.6	0.9	1.5	20.4	925
RE-2Y(St)YSWAY 20C1.5	20x1x1.5	0.6	1.2	17.6	1.25	1.6	23.3	1090
RE-2Y(St)YSWAY 24C1.5	24x1x1.5	0.6	1.3	19.6	1.25	1.6	25.3	1218
RE-2Y(St)YSWAY 27C1.5	27x1x1.5	0.6	1.3	20.1	1.25	1.6	25.8	1320
RE-2Y(St)YSWAY 30C1.5	30x1x1.5	0.6	1.3	20.8	1.25	1.7	26.7	1385
RE-2Y(St)YSWAY 37C1.5	37x1x1.5	0.6	1.4	22.6	1.25	1.7	28.5	1586
RE-2Y(St)YSWAY 40C1.5	40x1x1.5	0.6	1.4	23.6	1.25	1.7	29.5	1723
2.5mm^2, Multicore								
RE-2Y(St)YSWAY 2C2.5	2x1x2.5	0.7	0.9	8.9	0.9	1.4	13.5	370
RE-2Y(St)YSWAY 3C2.5	3x1x2.5	0.7	1.0	9.7	0.9	1.4	14.3	387
RE-2Y(St)YSWAY 4C2.5	4x1x2.5	0.7	1.0	10.5	0.9	1.4	15.1	442
RE-2Y(St)YSWAY 5C2.5	5x1x2.5	0.7	1.0	11.9	0.9	1.4	16.5	568
RE-2Y(St)YSWAY 8C2.5	8x1x2.5	0.7	1.1	13.9	0.9	1.5	18.7	729
RE-2Y(St)YSWAY 10C2.5	10x1x2.5	0.7	1.2	16.3	0.9	1.6	21.3	957
RE-2Y(St)YSWAY 12C2.5	12x1x2.5	0.7	1.2	16.9	0.9	1.6	21.9	1049
RE-2Y(St)YSWAY 14C2.5	14x1x2.5	0.7	1.2	17.7	1.25	1.6	23.4	1198
RE-2Y(St)YSWAY 16C2.5	16x1x2.5	0.7	1.3	18.9	1.25	1.6	24.6	1302
RE-2Y(St)YSWAY 20C2.5	20x1x2.5	0.7	1.3	21.1	1.25	1.7	27.0	1485
RE-2Y(St)YSWAY 24C2.5	24x1x2.5	0.7	1.4	23.6	1.25	1.7	29.5	1718
RE-2Y(St)YSWAY 27C2.5	27x1x2.5	0.7	1.4	24.1	1.25	1.8	30.2	1895

Caledonian Cable Code	RE-2Y(St)YSWAY							
	No. of Cores x1xCross 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.x1xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YSWAY 30C2.5	30x1x2.5	0.7	1.5	25.2	1.25	1.8	31.3	2166
RE-2Y(St)YSWAY 37C2.5	37x1x2.5	0.7	1.5	27.2	1.25	1.8	33.3	2505
RE-2Y(St)YSWAY 40C2.5	40x1x2.5	0.7	1.6	28.5	1.25	1.9	34.8	

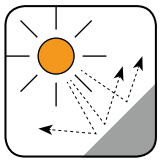
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

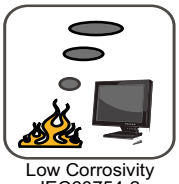
Standard


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


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

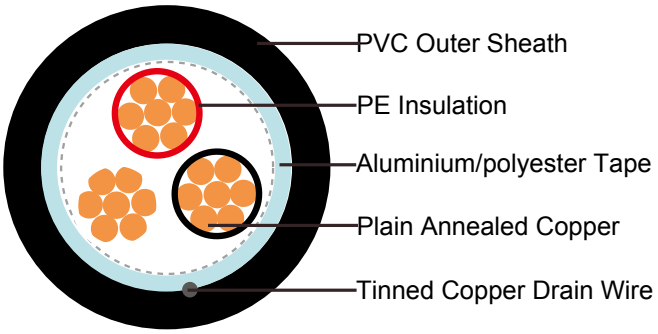

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

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

RE-2Y(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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

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

Insulation: PE compound as per 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, 0.5mm^2
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, continuously numbered on white core(1, 2..)for multitriples.
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.)	250				
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.)		μH/Ω	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)Y				
	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-2Y(St)Y 1T0.5	1x3x0.50	0.35	0.8	5.4	49
RE-2Y(St)Y 1T0.75	1x3x0.75	0.38	0.9	6.1	60
RE-2Y(St)Y 1T1.0	1x3x1.0	0.4	0.9	6.6	71
RE-2Y(St)Y 1T1.3	1x3x1.3	0.45	0.9	7.2	86
RE-2Y(St)Y 1T1.5	1x3x1.5	0.45	0.9	7.5	97

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
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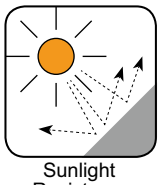
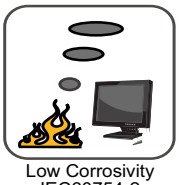
IEC60332-3-24
EN50266-2-4


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

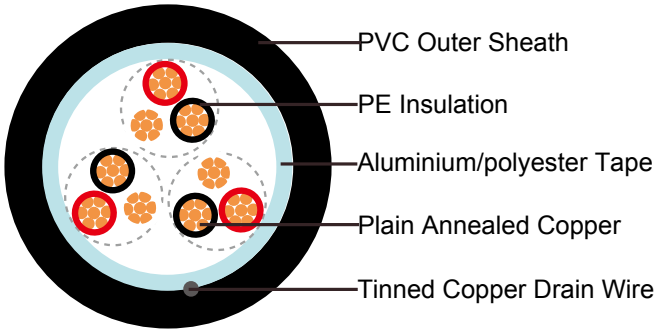

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PE Insulated, PVC Sheathed & Overall Screened Instrumentation Cables (Multitriple)

RE-2Y(St)Y 90°C / 300 V



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Separator: Polyester tape.
Overall Screen: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
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, continuously numbered on white core(1, 2..)for multitriples.
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	36.0	24.5	18.1	13.9	12.1
Insulation resistance (20°C)		MΩ.km(Min.)	5000	5000	5000	5000	5000
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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-2Y(St)Y				
	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
0.5mm^2 , Multitriple					
RE-2Y(St)Y 2T0.5	2x3x0.50	0.35	0.9	8.4	92
RE-2Y(St)Y 4T0.5	4x3x0.50	0.35	1.0	9.8	124
RE-2Y(St)Y 5T0.5	5x3x0.50	0.35	1.0	10.8	155
RE-2Y(St)Y 6T0.5	6x3x0.50	0.35	1.0	12.1	186
RE-2Y(St)Y 8T0.5	8x3x0.50	0.35	1.1	13.1	222
RE-2Y(St)Y 10T0.5	10x3x0.50	0.35	1.1	14.7	276
RE-2Y(St)Y 12T0.5	12x3x0.50	0.35	1.1	15.2	325
RE-2Y(St)Y 16T0.5	16x3x0.50	0.35	1.2	17.4	416
RE-2Y(St)Y 20T0.5	20x3x0.50	0.35	1.2	19.1	510
RE-2Y(St)Y 24T0.5	24x3x0.50	0.35	1.3	20.9	597
0.75mm^2 , Multitriple					
RE-2Y(St)Y 2T0.75	2x3x0.75	0.38	0.9	9.3	114
RE-2Y(St)Y 4T0.75	4x3x0.75	0.38	1.0	10.9	163
RE-2Y(St)Y 5T0.75	5x3x0.75	0.38	1.0	12.0	199
RE-2Y(St)Y 6T0.75	6x3x0.75	0.38	1.1	13.7	246
RE-2Y(St)Y 8T0.75	8x3x0.75	0.38	1.1	14.7	297
RE-2Y(St)Y 10T0.75	10x3x0.75	0.38	1.2	16.7	368
RE-2Y(St)Y 12T0.75	12x3x0.75	0.38	1.2	17.3	425
RE-2Y(St)Y 16T0.75	16x3x0.75	0.38	1.3	19.7	558
RE-2Y(St)Y 20T0.75	20x3x0.75	0.38	1.3	21.7	685
RE-2Y(St)Y 24T0.75	24x3x0.75	0.38	1.4	23.7	806
1.0mm^2 , Multitriple					
RE-2Y(St)Y 2T1.0	2x3x1.0	0.4	1.0	10.4	135
RE-2Y(St)Y 4T1.0	4x3x1.0	0.4	1.0	11.9	203
RE-2Y(St)Y 5T1.0	5x3x1.0	0.4	1.0	13.2	252
RE-2Y(St)Y 6T1.0	6x3x1.0	0.4	1.1	15.0	304

Caledonian Cable Code	RE-2Y(St)Y				
	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-2Y(St)Y 8T1.0	8x3x1.0	0.4	1.1	16.1	381
RE-2Y(St)Y 10T1.0	10x3x1.0	0.4	1.2	18.4	463
RE-2Y(St)Y 12T1.0	12x3x1.0	0.4	1.2	19.0	546
RE-2Y(St)Y 16T1.0	16x3x1.0	0.4	1.3	21.7	720
RE-2Y(St)Y 20T1.0	20x3x1.0	0.4	1.4	24.1	884
RE-2Y(St)Y 24T1.0	24x3x1.0	0.4	1.4	26.1	1053
1.3mm^2 , Multitriple					
RE-2Y(St)Y 2T1.3	2x3x1.3	0.45	1.0	11.5	175
RE-2Y(St)Y 4T1.3	4x3x1.3	0.45	1.1	13.4	252
RE-2Y(St)Y 5T1.3	5x3x1.3	0.45	1.1	14.8	319
RE-2Y(St)Y 6T1.3	6x3x1.3	0.45	1.2	16.9	388
RE-2Y(St)Y 8T1.3	8x3x1.3	0.45	1.2	18.1	476
RE-2Y(St)Y 10T1.3	10x3x1.3	0.45	1.3	20.7	591
RE-2Y(St)Y 12T1.3	12x3x1.3	0.45	1.3	21.4	697
RE-2Y(St)Y 16T1.3	16x3x1.3	0.45	1.4	24.4	921
RE-2Y(St)Y 20T1.3	20x3x1.3	0.45	1.5	27.1	1128
RE-2Y(St)Y 24T1.3	24x3x1.3	0.45	1.6	29.6	1341
1.5mm^2 , Multitriple					
RE-2Y(St)Y 2T1.5	2x3x1.5	0.45	1.0	11.9	192
RE-2Y(St)Y 4T1.5	4x3x1.5	0.45	1.1	14.0	288
RE-2Y(St)Y 5T1.5	5x3x1.5	0.45	1.1	15.4	356
RE-2Y(St)Y 6T1.5	6x3x1.5	0.45	1.2	17.6	433
RE-2Y(St)Y 8T1.5	8x3x1.5	0.45	1.3	19.1	543
RE-2Y(St)Y 10T1.5	10x3x1.5	0.45	1.3	21.6	675
RE-2Y(St)Y 12T1.5	12x3x1.5	0.45	1.4	22.5	782
RE-2Y(St)Y 16T1.5	16x3x1.5	0.45	1.5	25.7	1035
RE-2Y(St)Y 20T1.5	20x3x1.5	0.45	1.6	28.6	1271
RE-2Y(St)Y 24T1.5	24x3x1.5	0.45	1.7	31.1	1514

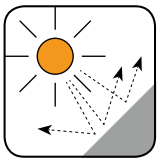
Note : Other conductor sizes & core configurations are available upon request.

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



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

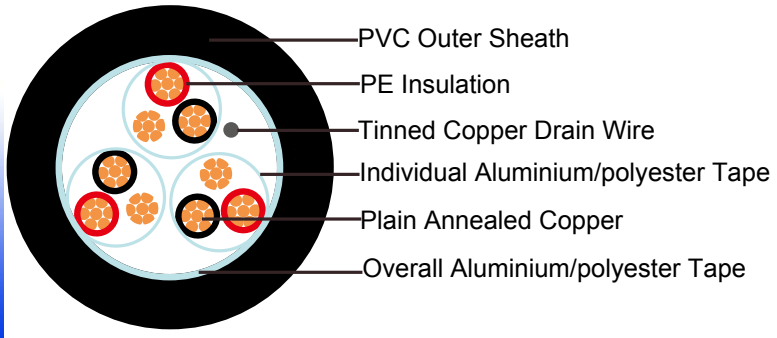
Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Oil Resistance
ICEA S-73-532

PE Insulated, PVC Sheathed, Individual & Overall Screened Instrumentation Cables (Multitriple)

RE-2Y(St)Y-TiMF 70°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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.

Individual Screen: Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm².
Triple: Three conductors twisted to form a triple.
**TiMF Construction: Polyester tape above the triple, AL-PES tape over solid tinned copper drain wire, 0,60 mm.
Lay-up: TiMF 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 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, continuously numbered on white core(1, 2..)for multitriples.
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
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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500				
Inductance		mH/km(Max.)	1	1	1	1	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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)Y-TiMF				
	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
0.5mm^2 , Multitriple					
RE-2Y(St)Y-TiMF 2T0.5	2x3x0.5	0.35	1.0	9.7	104
RE-2Y(St)Y-TiMF 4T0.5	4x3x0.5	0.35	1.0	11.1	156
RE-2Y(St)Y-TiMF 5T0.5	5x3x0.5	0.35	1.1	12.4	183
RE-2Y(St)Y-TiMF 6T0.5	6x3x0.5	0.35	1.1	14.0	236
RE-2Y(St)Y-TiMF 8T0.5	8x3x0.5	0.35	1.1	14.9	288
RE-2Y(St)Y-TiMF 10T0.5	10x3x0.5	0.35	1.2	17.0	350
RE-2Y(St)Y-TiMF 12T0.5	12x3x0.5	0.35	1.2	17.6	386
RE-2Y(St)Y-TiMF 16T0.5	16x3x0.5	0.35	1.3	20.1	506
RE-2Y(St)Y-TiMF 20T0.5	20x3x0.5	0.35	1.4	22.3	619
RE-2Y(St)Y-TiMF 24T0.5	24x3x0.5	0.35	1.5	24.4	752
0.75mm^2 , Multitriple					
RE-2Y(St)Y-TiMF 2T0.75	2x3x0.75	0.38	1.0	10.6	125
RE-2Y(St)Y-TiMF 4T0.75	4x3x0.75	0.38	1.1	12.4	187
RE-2Y(St)Y-TiMF 5T0.75	5x3x0.75	0.38	1.1	13.7	238
RE-2Y(St)Y-TiMF 6T0.75	6x3x0.75	0.38	1.1	15.4	281
RE-2Y(St)Y-TiMF 8T0.75	8x3x0.75	0.38	1.2	16.7	364
RE-2Y(St)Y-TiMF 10T0.75	10x3x0.75	0.38	1.3	19.0	448
RE-2Y(St)Y-TiMF 12T0.75	12x3x0.75	0.38	1.3	19.7	497
RE-2Y(St)Y-TiMF 16T0.75	16x3x0.75	0.38	1.4	22.5	655
RE-2Y(St)Y-TiMF 20T0.75	20x3x0.75	0.38	1.5	24.9	802
RE-2Y(St)Y-TiMF 24T0.75	24x3x0.75	0.38	1.6	27.2	970
1.0mm^2 , Multitriple					
RE-2Y(St)Y-TiMF 2T1.0	2x3x1.0	0.4	1.0	11.5	154
RE-2Y(St)Y-TiMF 4T1.0	4x3x1.0	0.4	1.1	13.4	228
RE-2Y(St)Y-TiMF 5T1.0	5x3x1.0	0.4	1.1	14.8	287
RE-2Y(St)Y-TiMF 6T1.0	6x3x1.0	0.4	1.2	16.9	350
RE-2Y(St)Y-TiMF 8T1.0	8x3x1.0	0.4	1.2	18.1	445

Caledonian Cable Code	RE-2Y(St)Y-TiMF				
	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-2Y(St)Y-TiMF 10T1.0	10x3x1.0	0.4	1.3	20.7	547
RE-2Y(St)Y-TiMF 12T1.0	12x3x1.0	0.4	1.3	21.4	624
RE-2Y(St)Y-TiMF 16T1.0	16x3x1.0	0.4	1.4	24.4	822
RE-2Y(St)Y-TiMF 20T1.0	20x3x1.0	0.4	1.5	27.1	1005
RE-2Y(St)Y-TiMF 24T1.0	24x3x1.0	0.4	1.6	29.6	1212
1.3mm^2 , Multitriple					
RE-2Y(St)Y-TiMF 2T1.3	2x3x1.3	0.45	1.1	12.8	186
RE-2Y(St)Y-TiMF 4T1.3	4x3x1.3	0.45	1.1	14.7	284
RE-2Y(St)Y-TiMF 5T1.3	5x3x1.3	0.45	1.2	16.5	358
RE-2Y(St)Y-TiMF 6T1.3	6x3x1.3	0.45	1.3	18.8	427
RE-2Y(St)Y-TiMF 8T1.3	8x3x1.3	0.45	1.3	20.1	551
RE-2Y(St)Y-TiMF 10T1.3	10x3x1.3	0.45	1.4	23.0	684
RE-2Y(St)Y-TiMF 12T1.3	12x3x1.3	0.45	1.5	24.0	769
RE-2Y(St)Y-TiMF 16T1.3	16x3x1.3	0.45	1.6	27.4	1025
RE-2Y(St)Y-TiMF 20T1.3	20x3x1.3	0.45	1.7	30.4	1256
RE-2Y(St)Y-TiMF 24T1.3	24x3x1.3	0.45	1.8	33.1	1516
1.5mm^2 , Multitriple					
RE-2Y(St)Y-TiMF 2T1.5	2x3x1.5	0.45	1.1	13.2	199
RE-2Y(St)Y-TiMF 4T1.5	4x3x1.5	0.45	1.2	15.4	322
RE-2Y(St)Y-TiMF 5T1.5	5x3x1.5	0.45	1.2	17.1	397
RE-2Y(St)Y-TiMF 6T1.5	6x3x1.5	0.45	1.3	19.5	484
RE-2Y(St)Y-TiMF 8T1.5	8x3x1.5	0.45	1.4	21.1	616
RE-2Y(St)Y-TiMF 10T1.5	10x3x1.5	0.45	1.5	24.1	768
RE-2Y(St)Y-TiMF 12T1.5	12x3x1.5	0.45	1.5	24.9	870
RE-2Y(St)Y-TiMF 16T1.5	16x3x1.5	0.45	1.6	28.4	1144
RE-2Y(St)Y-TiMF 20T1.5	20x3x1.5	0.45	1.7	31.6	1404
RE-2Y(St)Y-TiMF 24T1.5	24x3x1.5	0.45	1.8	34.4	1698

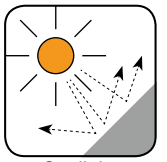
Note : Other conductor sizes & core configurations are available upon request.

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



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

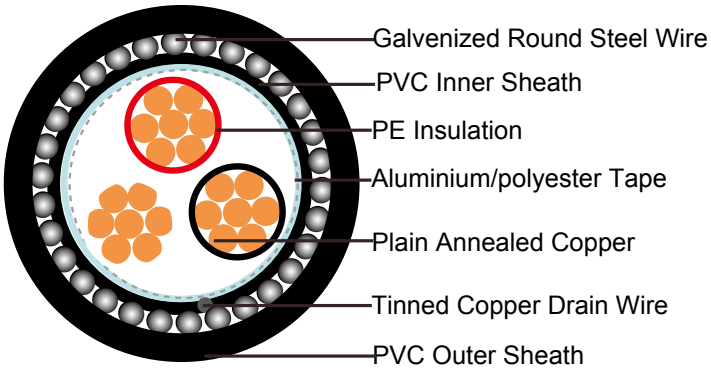
Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Oil Resistance
ICEA S-73-532

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

RE-2Y(St)YSWAY 70°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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.
Pair: Two conductors twisted to form a pair.
Lay-up: Pairs laid up in layers of optimum pitch.
Separator: Polyester tape.
Overall Screen: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
Inner Sheath: Thermoplastic PVC compound
Armour: Galvenized round steel wire, EN 10257-1
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, continuously numbered on white core(1, 2..)for multitriples.
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: 10 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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500				
L / R (ratio) (max.)		μH/Ω	25	25	25	40	40
Inductance		mH/km(Max.)	1	1	1	1	1
Operating voltage Urms		V	300				
Test Voltage	Core to Core	V	1500				
	Core to Screen	V	1500				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)YSWAY							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YSWAY 1T0.5	1x3x0.50	0.35	0.8	5.4	0.9	1.3	9.8	200
RE-2Y(St)YSWAY 1T0.75	1x3x0.75	0.38	0.9	6.1	0.9	1.3	10.5	220
RE-2Y(St)YSWAY 1T1.0	1x3x1.0	0.40	0.9	6.6	0.9	1.3	11.0	244
RE-2Y(St)YSWAY 1T1.3	1x3x1.3	0.45	0.9	7.2	0.9	1.3	11.6	268
RE-2Y(St)YSWAY 1T1.5	1x3x1.5	0.45	0.9	7.5	0.9	1.3	11.9	277

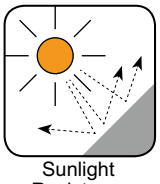
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

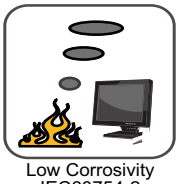
Standard


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


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

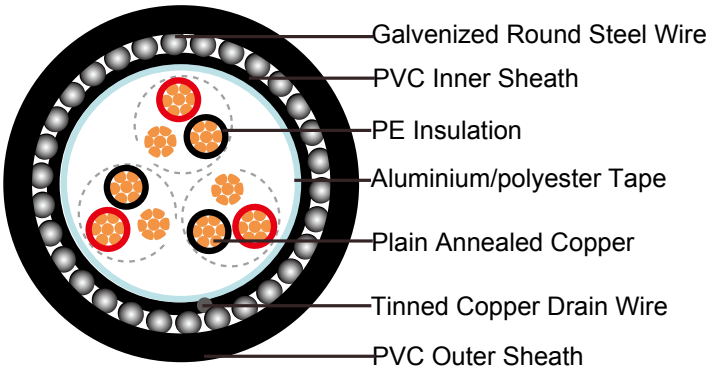

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PE Insulated, PVC Sheathed, Overall Screened & Armoured Instrumentation Cables (Multitriple)

RE-2Y(St)YSWAY 70°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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.
Pair: Two conductors twisted to form a pair.

Lay-up: Pairs laid up in layers of optimum pitch.
Separator: Polyester tape.
Overall Screen: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
Inner Sheath: Thermoplastic PVC compound.
Armour: Galvenized round steel wire, EN 10257-1.
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, continuously numbered on white core(1, 2..)for multitriples.
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: 10 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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500				
L / R (ratio) (max.)		μH/Ω	25	25	25	40	40
Inductance		mH/km(Max.)	1				
Operating voltage Urms		V	300				
Test Voltage	Core to Core	V	1500				
	Core to Screen	V	1500				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)YSWAY							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multitriple								
RE-2Y(St)YSWAY 2T0.5	2x3x0.5	0.35	0.9	8.4	0.9	1.4	13.0	326
RE-2Y(St)YSWAY 4T0.5	4x3x0.5	0.35	1.0	9.8	0.9	1.4	14.4	386
RE-2Y(St)YSWAY 5T0.5	5x3x0.5	0.35	1.0	10.8	0.9	1.4	15.4	454
RE-2Y(St)YSWAY 6T0.5	6x3x0.5	0.35	1.0	12.1	0.9	1.4	16.7	513
RE-2Y(St)YSWAY 8T0.5	8x3x0.5	0.35	1.1	13.1	0.9	1.5	17.9	571
RE-2Y(St)YSWAY 10T0.5	10x3x0.5	0.35	1.1	14.7	0.9	1.5	19.5	677
RE-2Y(St)YSWAY 12T0.5	12x3x0.5	0.35	1.1	15.2	0.9	1.5	20.0	845
RE-2Y(St)YSWAY 16T0.5	16x3x0.5	0.35	1.2	17.4	0.9	1.6	22.4	1031
RE-2Y(St)YSWAY 20T0.5	20x3x0.5	0.35	1.2	19.1	1.25	1.6	24.8	1179
RE-2Y(St)YSWAY 24T0.5	24x3x0.5	0.35	1.3	20.9	1.25	1.7	26.8	1330
0.75mm^2, Multitriple								
RE-2Y(St)YSWAY 2T0.75	2x3x0.75	0.38	1.0	10.6	0.9	1.4	13.9	370
RE-2Y(St)YSWAY 4T0.75	4x3x0.75	0.38	1.1	12.4	0.9	1.4	15.5	462
RE-2Y(St)YSWAY 5T0.75	5x3x0.75	0.38	1.1	13.7	0.9	1.4	16.6	526
RE-2Y(St)YSWAY 6T0.75	6x3x0.75	0.38	1.1	15.4	0.9	1.5	18.5	615
RE-2Y(St)YSWAY 8T0.75	8x3x0.75	0.38	1.2	16.7	0.9	1.5	19.5	698
RE-2Y(St)YSWAY 10T0.75	10x3x0.75	0.38	1.3	19.0	0.9	1.5	21.5	947
RE-2Y(St)YSWAY 12T0.75	12x3x0.75	0.38	1.3	19.7	0.9	1.7	22.3	1029
RE-2Y(St)YSWAY 16T0.75	16x3x0.75	0.38	1.4	22.5	1.25	1.6	25.4	1240
RE-2Y(St)YSWAY 20T0.75	20x3x0.75	0.38	1.5	24.9	1.25	1.7	27.6	1446
RE-2Y(St)YSWAY 24T0.75	24x3x0.75	0.38	1.6	27.2	1.25	1.7	29.6	1632
1.0mm^2, Multitriple								
RE-2Y(St)YSWAY 2T1.0	2x3x1.0	0.40	1.0	11.5	0.9	1.4	15.0	412
RE-2Y(St)YSWAY 4T1.0	4x3x1.0	0.40	1.1	13.4	0.9	1.4	16.5	529
RE-2Y(St)YSWAY 5T1.0	5x3x1.0	0.40	1.1	14.8	0.9	1.5	18.0	620
RE-2Y(St)YSWAY 6T1.0	6x3x1.0	0.40	1.2	16.9	0.9	1.5	19.8	830

Caledonian Cable Code	RE-2Y(St)YSWAY							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YSWAY 8T1.0	8x3x1.0	0.40	1.2	18.1	0.9	1.5	20.9	946
RE-2Y(St)YSWAY 10T1.0	10x3x1.0	0.40	1.3	20.7	0.9	1.6	24.1	1105
RE-2Y(St)YSWAY 12T1.0	12x3x1.0	0.40	1.3	21.4	1.25	1.6	24.7	1215
RE-2Y(St)YSWAY 16T1.0	16x3x1.0	0.40	1.4	24.4	1.25	1.7	27.6	1482
RE-2Y(St)YSWAY 20T1.0	20x3x1.0	0.40	1.5	27.1	1.25	1.7	30.0	1740
RE-2Y(St)YSWAY 24T1.0	24x3x1.0	0.40	1.6	29.6	1.25	1.8	32.2	2202
1.3mm^2, Multitriple								
RE-2Y(St)YSWAY 2T1.3	2x3x1.3	0.45	1.1	12.8	0.9	1.4	16.1	463
RE-2Y(St)YSWAY 4T1.3	4x3x1.3	0.45	1.1	14.7	0.9	1.5	18.2	621
RE-2Y(St)YSWAY 5T1.3	5x3x1.3	0.45	1.2	16.5	0.9	1.5	19.6	721
RE-2Y(St)YSWAY 6T1.3	6x3x1.3	0.45	1.3	18.8	0.9	1.5	21.7	979
RE-2Y(St)YSWAY 8T1.3	8x3x1.3	0.45	1.3	20.1	0.9	1.6	23.8	1105
RE-2Y(St)YSWAY 10T1.3	10x3x1.3	0.45	1.4	23.0	1.25	1.7	26.6	1322
RE-2Y(St)YSWAY 12T1.3	12x3x1.3	0.45	1.5	24.0	1.25	1.7	27.3	1456
RE-2Y(St)YSWAY 16T1.3	16x3x1.3	0.45	1.6	27.4	1.25	1.8	30.5	1788
RE-2Y(St)YSWAY 20T1.3	20x3x1.3	0.45	1.7	30.4	1.25	1.8	33.2	2327
RE-2Y(St)YSWAY 24T1.3	24x3x1.3	0.45	1.8	33.1	1.60	1.9	36.6	2637
1.5mm^2, Multitriple								
RE-2Y(St)YSWAY 2T1.5	2x3x1.5	0.45	1.1	13.2	0.9	1.4	16.5	518
RE-2Y(St)YSWAY 4T1.5	4x3x1.5	0.45	1.2	15.4	0.9	1.5	18.8	674
RE-2Y(St)YSWAY 5T1.5	5x3x1.5	0.45	1.2	17.1	0.9	1.5	20.2	869
RE-2Y(St)YSWAY 6T1.5	6x3x1.5	0.45	1.3	19.5	0.9	1.6	22.6	1049
RE-2Y(St)YSWAY 8T1.5	8x3x1.5	0.45	1.4	21.1	1.25	1.6	24.8	1210
RE-2Y(St)YSWAY 10T1.5	10x3x1.5	0.45	1.5	24.1	1.25	1.7	27.5	1435
RE-2Y(St)YSWAY 12T1.5	12x3x1.5	0.45	1.5	24.9	1.25	1.7	28.4	1569
RE-2Y(St)YSWAY 16T1.5	16x3x1.5	0.45	1.6	28.4	1.25	1.8	31.8	2162
RE-2Y(St)YSWAY 20T1.5	20x3x1.5	0.45	1.7	31.6	1.25	1.9	34.9	2515
RE-2Y(St)YSWAY 24T1.5	24x3x1.5	0.45	1.8	34.4	1.60	2.0	38.3	2879

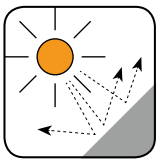
Note : Other conductor sizes & core configurations are available upon request.

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



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

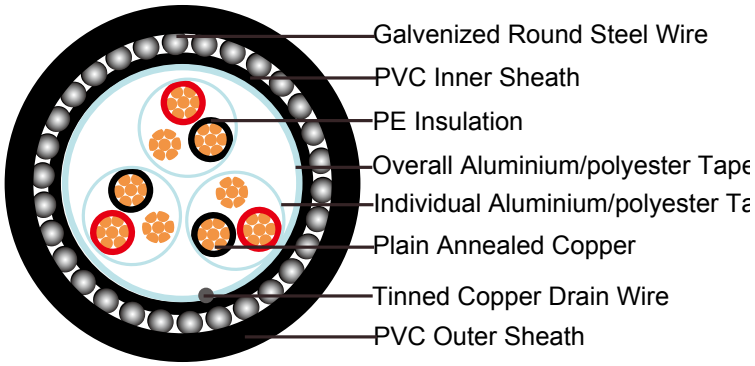
Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Oil Resistance
ICEA S-73-532

PE Insulated, PVC Sheathed, Individual & Overall Screened, Armoured Instrumentation Cables (Multitriple)

RE-2Y(St)YSWAY-TiMF 70°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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.
Individual Screen: Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm².
Pair: Two conductors twisted to form a pair.
Lay-up: Pairs laid up in layers of optimum pitch.
Separator: Polyester tape.
Overall Screen: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
Inner Sheath: Thermoplastic PVC compound.
Armour: Galvenized round steel wire, EN 10257-1.
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, continuously numbered on white core(1, 2..)for multitriples.
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: 10 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	0.4	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)	pF/m(Max.)	250				
Inductance	mH/km(Max.)	1				
Capacitance unbalance(1 kHz)	pF/500 m (Max.)	500				
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

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)YSWAY-TiMF							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multitriple								
RE-2Y(St)YSWAY-TiMF 2T0.5	2x3x0.5	0.35	1.0	9.7	0.9	1.4	14.3	363
RE-2Y(St)YSWAY-TiMF 4T0.5	4x3x0.5	0.35	1.0	11.1	0.9	1.4	15.7	456
RE-2Y(St)YSWAY-TiMF 5T0.5	5x3x0.5	0.35	1.1	12.4	0.9	1.5	17.2	517
RE-2Y(St)YSWAY-TiMF 6T0.5	6x3x0.5	0.35	1.1	14.0	0.9	1.5	18.8	612
RE-2Y(St)YSWAY-TiMF 8T0.5	8x3x0.5	0.35	1.1	14.9	0.9	1.5	19.7	800
RE-2Y(St)YSWAY-TiMF 10T0.5	10x3x0.5	0.35	1.2	17.0	1.25	1.6	22.7	951
RE-2Y(St)YSWAY-TiMF 12T0.5	12x3x0.5	0.35	1.2	17.6	1.25	1.6	23.3	978
RE-2Y(St)YSWAY-TiMF 16T0.5	16x3x0.5	0.35	1.3	20.1	1.25	1.7	26.0	1201
RE-2Y(St)YSWAY-TiMF 20T0.5	20x3x0.5	0.35	1.4	22.3	1.25	1.7	28.2	1394
RE-2Y(St)YSWAY-TiMF 24T0.5	24x3x0.5	0.35	1.5	24.4	1.25	1.8	30.5	1607
0.75mm^2, Multitriple								
RE-2Y(St)YSWAY-TiMF 2T0.75	2x3x0.75	0.38	1.0	10.6	0.9	1.4	15.2	418
RE-2Y(St)YSWAY-TiMF 4T0.75	4x3x0.75	0.38	1.1	12.4	0.9	1.5	17.2	521
RE-2Y(St)YSWAY-TiMF 5T0.75	5x3x0.75	0.38	1.1	13.7	0.9	1.5	18.5	608
RE-2Y(St)YSWAY-TiMF 6T0.75	6x3x0.75	0.38	1.1	15.4	0.9	1.5	20.2	820
RE-2Y(St)YSWAY-TiMF 8T0.75	8x3x0.75	0.38	1.2	16.7	0.9	1.6	21.7	942
RE-2Y(St)YSWAY-TiMF 10T0.75	10x3x0.75	0.38	1.3	19.0	1.25	1.6	24.7	1104
RE-2Y(St)YSWAY-TiMF 12T0.75	12x3x0.75	0.38	1.3	19.7	1.25	1.7	25.6	1178
RE-2Y(St)YSWAY-TiMF 16T0.75	16x3x0.75	0.38	1.4	22.5	1.25	1.7	28.4	1441
RE-2Y(St)YSWAY-TiMF 20T0.75	20x3x0.75	0.38	1.5	24.9	1.25	1.8	31.0	1888
RE-2Y(St)YSWAY-TiMF 24T0.75	24x3x0.75	0.38	1.6	27.2	1.25	1.9	33.5	2168
1.0mm^2, Multitriple								

Caledonian Cable Code	RE-2Y(St)YSWAY-TiMF							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YSWAY-TiMF 2T1.0	2x3x1.0	0.4	1.0	11.5	0.9	1.4	16.1	472
RE-2Y(St)YSWAY-TiMF 4T1.0	4x3x1.0	0.4	1.1	13.4	0.9	1.5	18.2	597
RE-2Y(St)YSWAY-TiMF 5T1.0	5x3x1.0	0.4	1.1	14.8	0.9	1.5	19.6	689
RE-2Y(St)YSWAY-TiMF 6T1.0	6x3x1.0	0.4	1.2	16.9	0.9	1.5	21.7	940
RE-2Y(St)YSWAY-TiMF 8T1.0	8x3x1.0	0.4	1.2	18.1	1.25	1.6	23.8	1035
RE-2Y(St)YSWAY-TiMF 10T1.0	10x3x1.0	0.4	1.3	20.7	1.25	1.7	26.6	1279
RE-2Y(St)YSWAY-TiMF 12T1.0	12x3x1.0	0.4	1.3	21.4	1.25	1.7	27.3	1383
RE-2Y(St)YSWAY-TiMF 16T1.0	16x3x1.0	0.4	1.4	24.4	1.25	1.7	30.3	1689
RE-2Y(St)YSWAY-TiMF 20T1.0	20x3x1.0	0.4	1.5	27.1	1.25	1.8	33.2	2204
RE-2Y(St)YSWAY-TiMF 24T1.0	24x3x1.0	0.4	1.6	29.6	1.6	1.9	36.6	2509
1.3mm^2, Multitriple								
RE-2Y(St)YSWAY-TiMF 2T1.3	2x3x1.3	0.45	1.1	12.8	0.9	1.5	17.6	532
RE-2Y(St)YSWAY-TiMF 4T1.3	4x3x1.3	0.45	1.1	14.7	0.9	1.5	19.5	685
RE-2Y(St)YSWAY-TiMF 5T1.3	5x3x1.3	0.45	1.2	16.5	0.9	1.6	21.5	925
RE-2Y(St)YSWAY-TiMF 6T1.3	6x3x1.3	0.45	1.3	18.8	1.25	1.6	24.5	1090
RE-2Y(St)YSWAY-TiMF 8T1.3	8x3x1.3	0.45	1.3	20.1	1.25	1.7	26.0	1250
RE-2Y(St)YSWAY-TiMF 10T1.3	10x3x1.3	0.45	1.4	23.0	1.25	1.8	29.1	1484
RE-2Y(St)YSWAY-TiMF 12T1.3	12x3x1.3	0.45	1.5	24.0	1.25	1.8	30.1	1595
RE-2Y(St)YSWAY-TiMF 16T1.3	16x3x1.3	0.45	1.6	27.4	1.25	1.9	33.7	2225
RE-2Y(St)YSWAY-TiMF 20T1.3	20x3x1.3	0.45	1.7	30.4	1.6	2.0	37.6	2596
RE-2Y(St)YSWAY-TiMF 24T1.3	24x3x1.3	0.45	1.8	33.1	1.6	2.0	40.3	2962
RE-2Y(St)YSWAY-TiMF 2T1.5	2x3x1.5	0.45	1.1	13.2	0.9	1.5	18.0	561
RE-2Y(St)YSWAY-TiMF 4T1.5	4x3x1.5	0.45	1.2	15.4	0.9	1.5	20.2	818
RE-2Y(St)YSWAY-TiMF 5T1.5	5x3x1.5	0.45	1.2	17.1	1.25	1.6	22.8	999
RE-2Y(St)YSWAY-TiMF 6T1.5	6x3x1.5	0.45	1.3	19.5	1.25	1.6	25.2	1164
RE-2Y(St)YSWAY-TiMF 8T1.5	8x3x1.5	0.45	1.4	21.1	1.25	1.7	27.0	1354
RE-2Y(St)YSWAY-TiMF 10T1.5	10x3x1,5	0.45	1.5	24.1	1.25	1.8	30.2	1596
RE-2Y(St)YSWAY-TiMF 12T1.5	12x3x1.5	0.45	1.5	24.9	1.25	1.8	31.0	1953

Caledonian Cable Code	RE-2Y(St)YSWAY-TiMF							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YSWAY-TiMF 16T1.5	16x3x1.5	0.45	1.6	28.4	1.6	1.9	35.4	2388
RE-2Y(St)YSWAY-TiMF 20T1.5	20x3x1.5	0.45	1.7	31.6	1.6	2.0	38.8	2800
RE-2Y(St)YSWAY-TiMF 24T1.5	24x3x1.5	0.45	1.8	34.4	1.6	2.1	41.8	3100

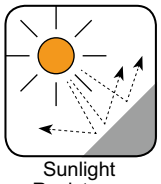
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

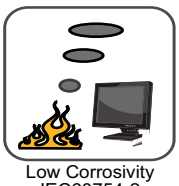
Standard


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


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

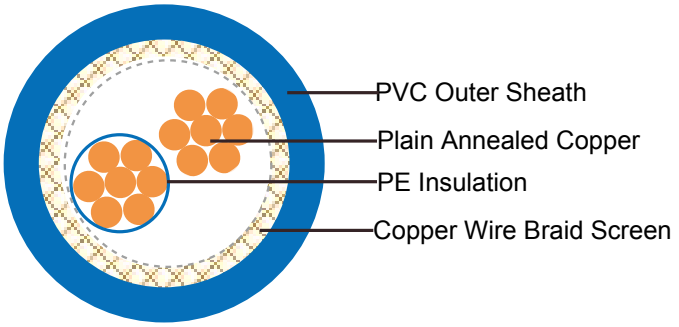

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PE Insulated, PVC Sheathed, CWB Screened Instrumentation Cables (Single Pair)

RE-2Y(C)Y 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.
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 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, 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
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	0.4	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)		pF/m(Max.)	250				
Capacitance unbalance(1 kHz)		pF/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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(C)Y		
	No. of Pairs x2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm^2	Kg/km	Kg/km
RE-2Y(C)Y 1P0.5	1x2x0.50	8.3	110

Caledonian Cable Code	RE-2Y(C)Y		
	No. of Pairs x2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm^2	Kg/km	Kg/km
RE-2Y(C)Y 1P0.75	1x2x0.75	8.7	119
RE-2Y(C)Y 1P1.0	1x2x1.0	9.4	135
RE-2Y(C)Y 1P1.3	1x2x1.3	9.7	140

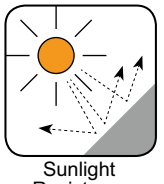
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

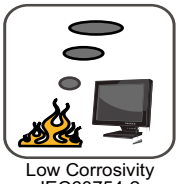
Standard


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


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

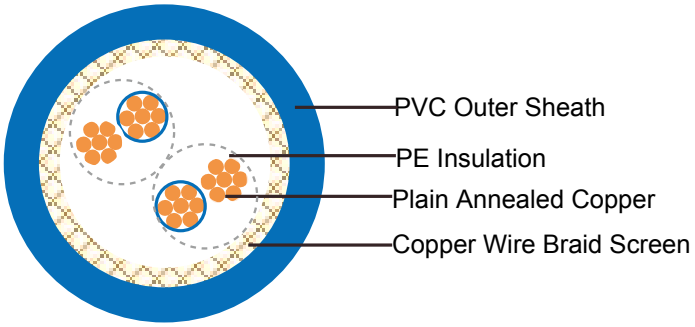

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PE Insulated, PVC Sheathed, CWB Screened Instrumentation Cables (Multipair)

RE-2Y(C)Y 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.
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 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, 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
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	0.4	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)		pF/m(Max.)	250				
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500				
L / R (ratio) (max.)		μH/Ω	25	25	25	40	40
Operating voltage Urms		V	300	300	300	300	300
Test Voltage	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(C)Y		
	No. of Pairsx2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm^2	Kg/km	Kg/km
0.5mm^2, Multipair			
RE-2Y(C)Y 1P0.5	1x2x0.50	8.3	110
RE-2Y(C)Y 2P0.5	2x2x0.50	10.7	143
RE-2Y(C)Y 3P0.5	3x2x0.50	11.1	158
RE-2Y(C)Y 4P0.5	4x2x0.50	11.9	181
RE-2Y(C)Y 6P0.5	6x2x0.50	13.6	230
RE-2Y(C)Y 8P0.5	8x2x0.50	14.2	264
RE-2Y(C)Y 12P0.5	12x2x0.50	16.4	343
RE-2Y(C)Y 16P0.5	16x2x0.50	18.2	418
RE-2Y(C)Y 20P0.5	20x2x0.50	19.7	487
RE-2Y(C)Y 24P0.5	24x2x0.50	21.1	557
0.75mm^2, Multipair			
RE-2Y(C)Y 1P0.75	1x2x0.75	8.7	119
RE-2Y(C)Y 2P0.75	2x2x0.75	11.4	161
RE-2Y(C)Y 3P0.75	3x2x0.75	11.9	185
RE-2Y(C)Y 4P0.75	4x2x0.75	12.7	214
RE-2Y(C)Y 6P0.75	6x2x0.75	14.6	278
RE-2Y(C)Y 8P0.75	8x2x0.75	15.4	324
RE-2Y(C)Y 12P0.75	12x2x0.75	17.8	427
RE-2Y(C)Y 16P0.75	16x2x0.75	19.8	526
RE-2Y(C)Y 20P0.75	20.x2x0.75	21.5	623
RE-2Y(C)Y 24P0.75	24x2x0.75	23.1	714
1.0mm^2, Multipair			
RE-2Y(C)Y 1P1.0	1x2x1.0	9.4	1.3.5
RE-2Y(C)Y 2P1.0	2x2x1.0	12.3	184
RE-2Y(C)Y 3P1.0	3x2x1.0	12.8	214
RE-2Y(C)Y 4P1.0	4x2x1.0	13.7	251
RE-2Y(C)Y 6P1.0	6x2x1.0	15.6	326

Caledonian Cable Code	RE-2Y(C)Y		
	No. of Pairsx2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm^2	Kg/km	Kg/km
RE-2Y(C)Y 8P1.0	8x2x1.0	16.4	382
RE-2Y(C)Y 12P1.0	12x2x1.0	19.0	511
RE-2Y(C)Y 16P1.0	16x2x1.0	21.2	636
RE-2Y(C)Y 20P1.0	20.x2x1.0	23.5	775
RE-2Y(C)Y 24P1.0	24x2x1.0	25.3	892
1.3mm^2, Multipair			
RE-2Y(C)Y 1P1.3	1x2x1.3	9.7	140
RE-2Y(C)Y 2P1.3	2x2x1.3	12.9	204
RE-2Y(C)Y 3P1.3	3x2x1.3	13.5	242
RE-2Y(C)Y 4P1.3	4x2x1.3	14.5	285
RE-2Y(C)Y 6P1.3	6x2x1.3	16.7	375
RE-2Y(C)Y 8P1.3	8x2x1.3	17.4	444
RE-2Y(C)Y 12P1.3	12x2x1.3	20.2	599
RE-2Y(C)Y 16P1.3	16x2x1.3	22.6	750
RE-2Y(C)Y 20P1.3	20.x2x1.3	25.1	916
RE-2Y(C)Y 24P1.3	24x2x1.3	27.0	1064

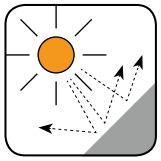
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

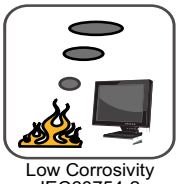
Standard


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


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

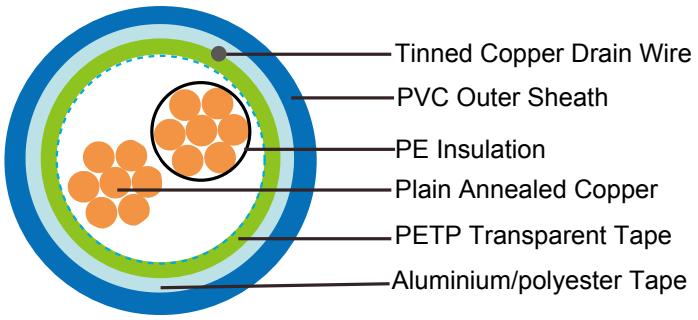

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

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

RE-2Y(St)Y 90°C / 300V



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.

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STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.

Pairs: 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, 0.5mm².
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, 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: 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	0.4	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)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)Y				
	No. of Pairsx2 xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
RE-2Y(St)Y 1P0.5	1x2x0.50	0.35	0.8	5.2	38
RE-2Y(St)Y 1P0.75	1x2x0.75	0.38	0.8	5.6	49
RE-2Y(St)Y 1P1.0	1x2x1.0	0.40	0.9	6.3	56
RE-2Y(St)Y 1P1.3	1x2x1.3	0.45	0.9	6.8	65
RE-2Y(St)Y 1P1.5	1x2x1.5	0.45	0.9	7.1	74

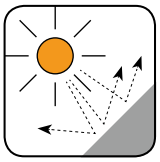
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

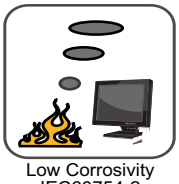
Standard


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


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

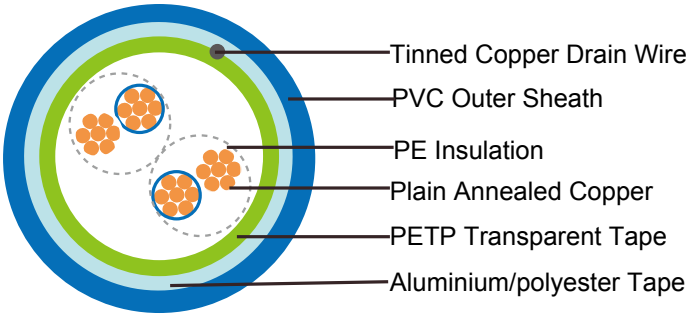

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

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

RE-2Y(St)Y 90°C / 300V



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STANDARDS

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FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.
Pairs: 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, 0.5mm².
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, 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): -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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)Y				
	No. of Pairsx2 xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
0.5mm^2, Multipair					
RE-2Y(St)Y 2P0.5	2x2x0.5	0.35	0.9	7.6	66
RE-2Y(St)Y 4P0.5	4x2x0.5	0.35	0.9	8.8	98
RE-2Y(St)Y 5P0.5	5x2x0.5	0.35	1.0	9.8	118
RE-2Y(St)Y 6P0.5	6x2x0.5	0.35	1.0	10.6	138
RE-2Y(St)Y 8P0.5	8x2x0.5	0.35	1.0	11.3	160
RE-2Y(St)Y 10P0.5	10x2x0.5	0.35	1.1	12.9	201
RE-2Y(St)Y 12P0.5	12x2x0.5	0.35	1.1	13.5	236
RE-2Y(St)Y 16P0.5	16x2x0.5	0.35	1.1	15.2	300
RE-2Y(St)Y 20P0.5	20x2x0.5	0.35	1.2	16.9	367
RE-2Y(St)Y 24P0.5	24x2x0.5	0.35	1.2	18.3	419
0.75mm^2, Multipair					
RE-2Y(St)Y 2P0.75	2x2x0.75	0.38	0.9	8.5	87
RE-2Y(St)Y 4P0.75	4x2x0.75	0.38	1.0	10.0	123
RE-2Y(St)Y 5P0.75	5x2x0.75	0.38	1.0	10.9	150
RE-2Y(St)Y 6P0.75	6x2x0.75	0.38	1.0	11.8	175
RE-2Y(St)Y 8P0.75	8x2x0.75	0.38	1.1	12.8	220
RE-2Y(St)Y 10P0.75	10x2x0.75	0.38	1.1	14.5	267
RE-2Y(St)Y 12P0.75	12x2x0.75	0.38	1.1	15.1	298
RE-2Y(St)Y 16P0.75	16x2x0.75	0.38	1.2	17.3	409
RE-2Y(St)Y 20P0.75	20x2x0.75	0.38	1.3	19.2	480
RE-2Y(St)Y 24P0.75	24x2x0.75	0.38	1.3	20.8	561
1.0mm^2, Multipair					
RE-2Y(St)Y 2P1.0	2x2x1.0	0.4	0.9	9.2	102
RE-2Y(St)Y 4P1.0	4x2x1.0	0.4	1.0	10.9	156
RE-2Y(St)Y 5P1.0	5x2x1.0	0.4	1.0	11.9	183
RE-2Y(St)Y 6P1.0	6x2x1.0	0.4	1.0	13.0	224

Caledonian Cable Code	RE-2Y(St)Y				
	No. of Pairsx2 xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
RE-2Y(St)Y 8P1.0	8x2x1.0	0.4	1.1	14.0	273
RE-2Y(St)Y 10P1.0	10x2x1.0	0.4	1.1	15.9	324
RE-2Y(St)Y 12P1.0	12x2x1.0	0.4	1.2	16.8	383
RE-2Y(St)Y 16P1.0	16x2x1.0	0.4	1.2	19.0	513
RE-2Y(St)Y 20P1.0	20x2x1.0	0.4	1.3	21.1	619
RE-2Y(St)Y 24P1.0	24x2x1.0	0.4	1.4	23.1	738
1.3mm^2, Multipair					
RE-2Y(St)Y 2P1.3	2x2x1.3	0.45	1.0	10.4	122
RE-2Y(St)Y 4P1.3	4x2x1.3	0.45	1.0	12.0	190
RE-2Y(St)Y 5P1.3	5x2x1.3	0.45	1.1	13.4	233
RE-2Y(St)Y 6P1.3	6x2x1.3	0.45	1.1	14.6	273
RE-2Y(St)Y 8P1.3	8x2x1.3	0.45	1.2	15.7	330
RE-2Y(St)Y 10P1.3	10x2x1.3	0.45	1.2	17.9	422
RE-2Y(St)Y 12P1.3	12x2x1.3	0.45	1.3	18.9	487
RE-2Y(St)Y 16P1.3	16x2x1.3	0.45	1.3	21.4	678
RE-2Y(St)Y 20P1.3	20x2x1.3	0.45	1.4	23.8	790
RE-2Y(St)Y 24P1.3	24x2x1.3	0.45	1.5	25.9	921
1.5mm^2, Multipair					
RE-2Y(St)Y 2P1.5	2x2x1.5	0.45	1.0	10.8	139
RE-2Y(St)Y 4P1.5	4x2x1.5	0.45	1.1	12.7	212
RE-2Y(St)Y 5P1.5	5x2x1.5	0.45	1.1	14.0	259
RE-2Y(St)Y 6P1.5	6x2x1.5	0.45	1.2	15.2	312
RE-2Y(St)Y 8P1.5	8x2x1.5	0.45	1.2	16.4	378
RE-2Y(St)Y 10P1.5	10x2x1.5	0.45	1.3	18.8	473
RE-2Y(St)Y 12P1.5	12x2x1.5	0.45	1.3	19.7	548
RE-2Y(St)Y 16P1.5	16x2x1.5	0.45	1.4	22.5	727
RE-2Y(St)Y 20P1.5	20x2x1.5	0.45	1.5	25.0	903

Caledonian Cable Code	RE-2Y(St)Y				
	No. of Pairsx2 xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
RE-2Y(St)Y 24P1.5	24x2x1.5	0.45	1.5	27.1	1051

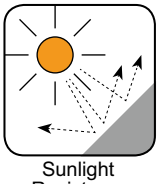
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

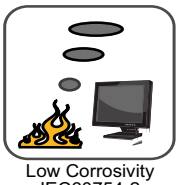
Standard


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


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

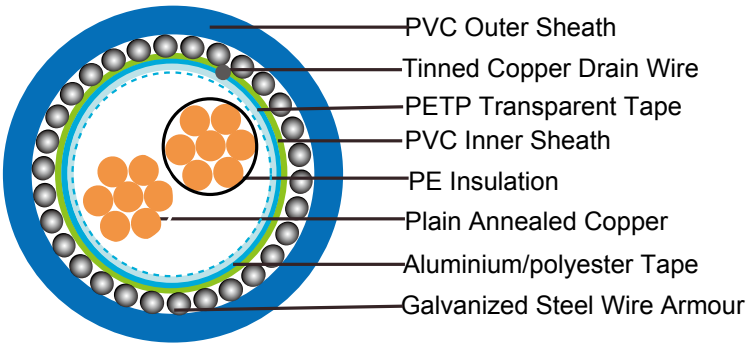

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PE Insulated, PVC Sheathed & Overall Screened, Armoured Instrumentation Cables (Single Pair)

RE-2Y(St)YSWAY 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.
Pairs: 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, 0.5mm².
Inner Sheath: Thermoplastic PVC compound as per EN 50290-2-22.
Amouring: Galvanized steel wire armour.
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, 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): -5°C – +50°C
Minimum Bending Radius: 10 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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)YSWAY							
	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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YSWAY 1P0.5	1x2x0.50	0.35	0.8	5.2	0.9	1.3	9.6	177
RE-2Y(St)YSWAY 1P0.75	1x2x0.75	0.38	0.8	5.6	0.9	1.3	10.0	199
RE-2Y(St)YSWAY 1P1.0	1x2x1.0	0.40	0.9	6.3	0.9	1.3	10.7	219
RE-2Y(St)YSWAY 1P1.3	1x2x1.3	0.45	0.9	6.8	0.9	1.3	11.2	241
RE-2Y(St)YSWAY 1P1.5	1x2x1.5	0.45	0.9	7.1	0.9	1.3	11.5	255

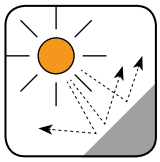
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

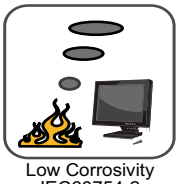
Standard


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


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

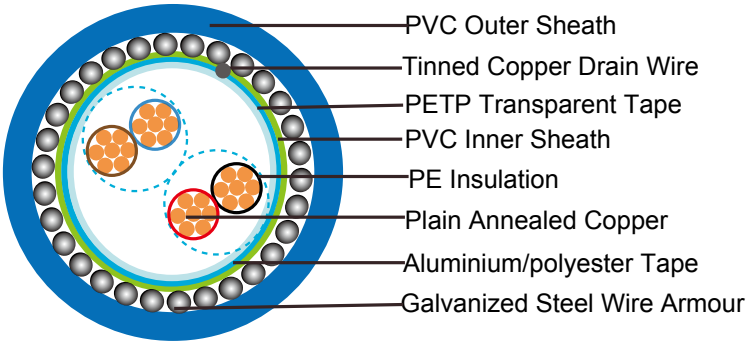

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

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

RE-2Y(St)YSWAY 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.
Pairs: 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, 0.5mm².
Inner Sheath: PVC compound as per EN 50290-2-22.
Amouring: Galvanized steel wire armour.
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, 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
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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)YSWAY							
	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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multipair								
RE-2Y(St)YSWAY 2P0.5	2x2x0.5	0.35	0.9	7.6	0.9	1.3	12.0	262
RE-2Y(St)YSWAY 4P0.5	4x2x0.5	0.35	0.9	8.8	0.9	1.4	13.4	325
RE-2Y(St)YSWAY 5P0.5	5x2x0.5	0.35	1.0	9.8	0.9	1.4	14.4	375
RE-2Y(St)YSWAY 6P0.5	6x2x0.5	0.35	1.0	10.6	0.9	1.4	15.2	411
RE-2Y(St)YSWAY 8P0.5	8x2x0.5	0.35	1.0	11.3	0.9	1.4	15.9	473
RE-2Y(St)YSWAY 10P0.5	10x2x0.5	0.35	1.1	12.9	0.9	1.5	17.7	537
RE-2Y(St)YSWAY 12P0.5	12x2x0.5	0.35	1.1	13.5	0.9	1.5	18.3	576
RE-2Y(St)YSWAY 16P0.5	16x2x0.5	0.35	1.1	15.2	0.9	1.5	20.0	824
RE-2Y(St)YSWAY 20P0.5	20x2x0.5	0.35	1.2	16.9	0.9	1.6	21.9	949
RE-2Y(St)YSWAY 24P0.5	24x2x0.5	0.35	1.2	18.3	1.25	1.6	24.0	1030
0.75mm^2, Multipair								
RE-2Y(St)YSWAY 2P0.75	2x2x0.75	0.38	0.9	8.5	0.9	1.4	13.1	308
RE-2Y(St)YSWAY 4P0.75	4x2x0.75	0.38	1.0	10.0	0.9	1.4	14.6	383
RE-2Y(St)YSWAY 5P0.75	5x2x0.75	0.38	1.0	10.9	0.9	1.4	15.5	448
RE-2Y(St)YSWAY 6P0.75	6x2x0.75	0.38	1.0	11.8	0.9	1.4	16.4	482
RE-2Y(St)YSWAY 8P0.75	8x2x0.75	0.38	1.1	12.8	0.9	1.5	17.6	534
RE-2Y(St)YSWAY 10P0.75	10x2x0.75	0.38	1.1	14.5	0.9	1.5	19.3	654
RE-2Y(St)YSWAY 12P0.75	12x2x0.75	0.38	1.1	15.1	0.9	1.5	19.9	826
RE-2Y(St)YSWAY 16P0.75	16x2x0.75	0.38	1.2	17.3	0.9	1.6	22.3	967
RE-2Y(St)YSWAY 20P0.75	20x2x0.75	0.38	1.3	19.2	1.25	1.6	24.9	1118
RE-2Y(St)YSWAY 24P0.75	24x2x0.75	0.38	1.3	20.8	1.25	1.6	26.7	1294
1.0mm^2, Multipair								
RE-2Y(St)YSWAY 2P1.0	2x2x1.0	0.4	0.9	9.2	0.9	1.4	13.8	357
RE-2Y(St)YSWAY 4P1.0	4x2x1.0	0.4	1.0	10.9	0.9	1.4	15.5	450
RE-2Y(St)YSWAY 5P1.0	5x2x1.0	0.4	1.0	11.9	0.9	1.4	16.5	509
RE-2Y(St)YSWAY 6P1.0	6x2x1.0	0.4	1.0	13.0	0.9	1.4	17.6	565

Caledonian Cable Code	RE-2Y(St)YSWAY							
	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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YSWAY 8P1.0	8x2x1.0	0.4	1.1	14.0	0.9	1.5	18.8	651
RE-2Y(St)YSWAY 10P1.0	10x2x1.0	0.4	1.1	15.9	0.9	1.5	20.7	886
RE-2Y(St)YSWAY 12P1.0	12x2x1.0	0.4	1.2	16.8	0.9	1.5	21.6	946
RE-2Y(St)YSWAY 16P1.0	16x2x1.0	0.4	1.2	19.0	1.25	1.6	24.7	1173
RE-2Y(St)YSWAY 20P1.0	20x2x1.0	0.4	1.3	21.1	1.25	1.7	27.0	1318
RE-2Y(St)YSWAY 24P1.0	24x2x1.0	0.4	1.4	23.1	1.25	1.7	29.0	1488
1.3mm^2, Multipair								
RE-2Y(St)YSWAY 2P1.3	2x2x1.3	0.45	1.0	10.4	0.9	1.4	15.0	405
RE-2Y(St)YSWAY 4P1.3	4x2x1.3	0.45	1.0	12.0	0.9	1.4	16.6	511
RE-2Y(St)YSWAY 5P1.3	5x2x1.3	0.45	1.1	13.4	0.9	1.5	18.2	595
RE-2Y(St)YSWAY 6P1.3	6x2x1.3	0.45	1.1	14.6	0.9	1.5	19.4	673
RE-2Y(St)YSWAY 8P1.3	8x2x1.3	0.45	1.2	15.7	0.9	1.5	20.5	870
RE-2Y(St)YSWAY 10P1.3	10x2x1.3	0.45	1.2	17.9	0.9	1.6	23.6	1012
RE-2Y(St)YSWAY 12P1.3	12x2x1.3	0.45	1.3	18.9	1.25	1.6	24.6	1143
RE-2Y(St)YSWAY 16P1.3	16x2x1.3	0.45	1.3	21.4	1.25	1.7	27.3	1407
RE-2Y(St)YSWAY 20P1.3	20x2x1.3	0.45	1.4	23.8	1.25	1.8	29.9	1601
RE-2Y(St)YSWAY 24P1.3	24x2x1.3	0.45	1.5	25.9	1.25	1.8	32.0	2048
1.5mm^2, Multipair								
RE-2Y(St)YSWAY 2P1.5	2x2x1.5	0.45	1.0	10.8	0.9	1.4	15.4	448
RE-2Y(St)YSWAY 4P1.5	4x2x1.5	0.45	1.1	12.7	0.9	1.5	17.5	530
RE-2Y(St)YSWAY 5P1.5	5x2x1.5	0.45	1.1	14.0	0.9	1.5	18.8	628
RE-2Y(St)YSWAY 6P1.5	6x2x1.5	0.45	1.2	15.2	0.9	1.5	20.0	835
RE-2Y(St)YSWAY 8P1.5	8x2x1.5	0.45	1.2	16.4	0.9	1.6	21.4	944
RE-2Y(St)YSWAY 10P1.5	10x2x1.5	0.45	1.3	18.8	1.25	1.6	24.5	1097
RE-2Y(St)YSWAY 12P1.5	12x2x1.5	0.45	1.3	19.7	1.25	1.7	25.6	1230
RE-2Y(St)YSWAY 16P1.5	16x2x1.5	0.45	1.4	22.5	1.25	1.7	28.4	1471
RE-2Y(St)YSWAY 20P1.5	20x2x1.5	0.45	1.5	25.0	1.25	1.8	31.1	1971

Caledonian Cable Code	RE-2Y(St)YSWAY							
	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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YSWAY 24P1.5	24x2x1.5	0.45	1.5	27.1	1.25	1.8	33.2	2251

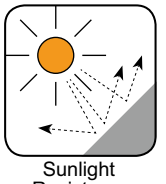
Note : Other conductor sizes & core configurations are available upon request.

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


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

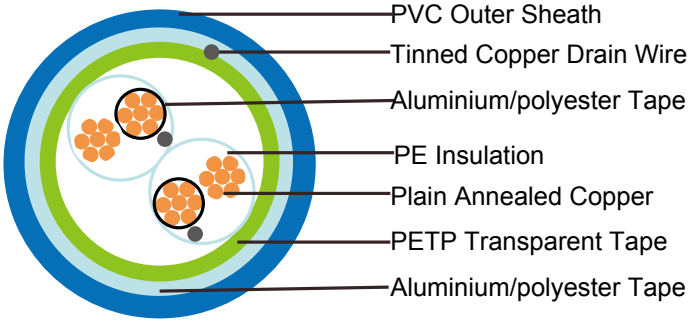

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PE Insulated, PVC Sheathed, Individual and Overall Screened Instrumentation Cables (Multipair)

RE-2Y(St)Y PiMF 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.
Pairs: Two insulated conductors uniformly twisted together with a lay not exceeding 100mm.
Individual Screen: Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm².

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, 0.5mm².
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, 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: 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	0.4	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)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)Y PiMF				
	No. of Pairsx2 xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
0.5mm^2, Multipair					
RE-2Y(St)Y PiMF 2P0.5	2x2x0.5	0.35	0.9	8.7	84
RE-2Y(St)Y PiMF 4P0.5	4x2x0.5	0.35	1.0	10.2	120
RE-2Y(St)Y PiMF 5P0.5	5x2x0.5	0.35	1.0	11.2	145
RE-2Y(St)Y PiMF 6P0.5	6x2x0.5	0.35	1.0	12.1	171
RE-2Y(St)Y PiMF 8P0.5	8x2x0.5	0.35	1.1	13.1	212
RE-2Y(St)Y PiMF 10P0.5	10x2x0.5	0.35	1.2	15.1	266
RE-2Y(St)Y PiMF 12P0.5	12x2x0.5	0.35	1.2	15.7	287
RE-2Y(St)Y PiMF 16P0.5	16x2x0.5	0.35	1.2	17.8	387
RE-2Y(St)Y PiMF 20P0.5	20x2x0.5	0.35	1.3	19.7	463
RE-2Y(St)Y PiMF 24P0.5	24x2x0.5	0.35	1.4	21.5	554
0.75mm^2, Multipair					
RE-2Y(St)Y PiMF 2P0.75	2x2x0.75	0.38	1.0	9.7	101
RE-2Y(St)Y PiMF 4P0.75	4x2x0.75	0.38	1.0	11.2	152
RE-2Y(St)Y PiMF 5P0.75	5x2x0.75	0.38	1.1	12.5	177
RE-2Y(St)Y PiMF 6P0.75	6x2x0.75	0.38	1.1	13.6	224
RE-2Y(St)Y PiMF 8P0.75	8x2x0.75	0.38	1.1	14.4	269
RE-2Y(St)Y PiMF 10P0.75	10x2x0.75	0.38	1.2	16.6	335
RE-2Y(St)Y PiMF 12P0.75	12x2x0.75	0.38	1.2	17.4	376
RE-2Y(St)Y PiMF 16P0.75	16x2x0.75	0.38	1.3	19.8	485
RE-2Y(St)Y PiMF 20P0.75	20x2x0.75	0.38	1.4	22.0	589
RE-2Y(St)Y PiMF 24P0.75	24x2x0.75	0.38	1.5	24.0	713
1.0mm^2, Multipair					
RE-2Y(St)Y PiMF 2P1.0	2x2x1.0	0.4	1.0	10.4	117
RE-2Y(St)Y PiMF 4P1.0	4x2x1.0	0.4	1.0	12.1	174
RE-2Y(St)Y PiMF 5P1.0	5x2x1.0	0.4	1.1	13.5	220

Caledonian Cable Code	RE-2Y(St)Y PiMF				
	No. of Pairsx2 xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
RE-2Y(St)Y PiMF 6P1.0	6x2x1.0	0.4	1.1	14.7	257
RE-2Y(St)Y PiMF 8P1.0	8x2x1.0	0.4	1.2	15.8	324
RE-2Y(St)Y PiMF 10P1.0	10x2x1.0	0.4	1.2	18.0	403
RE-2Y(St)Y PiMF 12P1.0	12x2x1.0	0.4	1.3	19.0	456
RE-2Y(St)Y PiMF 16P1.0	16x2x1.0	0.4	1.3	21.5	603
RE-2Y(St)Y PiMF 20P1.0	20x2x1.0	0.4	1.4	23.9	721
RE-2Y(St)Y PiMF 24P1.0	24x2x1.0	0.4	1.5	26.1	866
1.3mm^2, Multipair					
RE-2Y(St)Y PiMF 2P1.3	2x2x1.3	0.45	1.0	11.4	143
RE-2Y(St)Y PiMF 4P1.3	4x2x1.3	0.45	1.1	13.4	208
RE-2Y(St)Y PiMF 5P1.3	5x2x1.3	0.45	1.1	14.8	271
RE-2Y(St)Y PiMF 6P1.3	6x2x1.3	0.45	1.2	16.3	319
RE-2Y(St)Y PiMF 8P1.3	8x2x1.3	0.45	1.3	17.6	407
RE-2Y(St)Y PiMF 10P1.3	10x2x1.3	0.45	1.3	20.0	502
RE-2Y(St)Y PiMF 12P1.3	12x2x1.3	0.45	1.4	21.1	554
RE-2Y(St)Y PiMF 16P1.3	16x2x1.3	0.45	1.5	24.1	730
RE-2Y(St)Y PiMF 20P1.3	20x2x1.3	0.45	1.6	26.8	912
RE-2Y(St)Y PiMF 24P1.3	24x2x1.3	0.45	1.7	29.2	1090
1.5mm^2, Multipair					
RE-2Y(St)Y PiMF 2P1.5	2x2x1.5	0.45	1.0	11.8	158
RE-2Y(St)Y PiMF 4P1.5	4x2x1.5	0.45	1.1	13.9	243
RE-2Y(St)Y PiMF 5P1.5	5x2x1.5	0.45	1.2	15.5	290
RE-2Y(St)Y PiMF 6P1.5	6x2x1.5	0.45	1.2	16.9	358
RE-2Y(St)Y PiMF 8P1.5	8x2x1.5	0.45	1.3	18.2	447
RE-2Y(St)Y PiMF 10P1.5	10x2x1.5	0.45	1.4	21.0	550
RE-2Y(St)Y PiMF 12P1.5	12x2x1.5	0.45	1.4	21.9	625
RE-2Y(St)Y PiMF 16P1.5	16x2x1.5	0.45	1.5	25.1	831

Caledonian Cable Code	RE-2Y(St)Y PiMF				
	No. of Pairsx2 xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
RE-2Y(St)Y PiMF 20P1.5	20x2x1.5	0.45	1.6	27.8	1007
RE-2Y(St)Y PiMF 24P1.5	24x2x1.5	0.45	1.7	30.4	1223

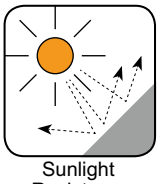
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

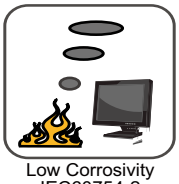
Standard


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


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

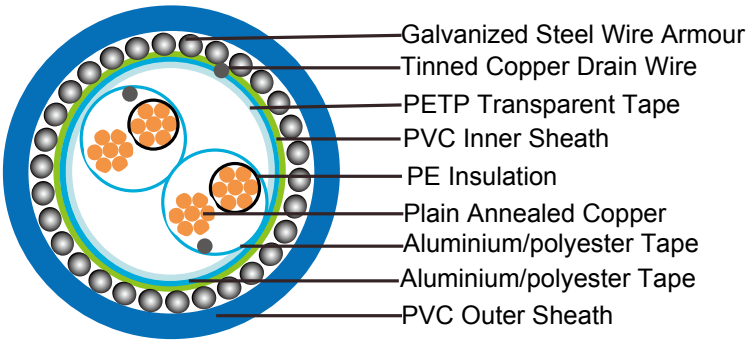

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PE Insulated, PVC Sheathed, Individual and Overall Screened & Armoured Instrumentation Cables (Multipair)

RE-2Y(St)YSWAY PiMF 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.
Pairs: Two insulated conductors uniformly twisted together with a lay not exceeding 100mm
Individual Screen: Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm²

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, 0.5mm²
Inner Sheath: PVC compound as per EN 50290-2-22.
Amouring: Galvanized steel wire armour
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, 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
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	0.4	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)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)YSWAY PiMF							
	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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multipair								
RE-2Y(St)YSWAY PiMF 2P0.5	2x2x0.5	0.35	0.9	8.7	0.9	1.4	13.3	311
RE-2Y(St)YSWAY PiMF 4P0.5	4x2x0.5	0.35	1.0	10.2	0.9	1.4	14.8	374
RE-2Y(St)YSWAY PiMF 5P0.5	5x2x0.5	0.35	1.0	11.2	0.9	1.4	15.8	451
RE-2Y(St)YSWAY PiMF 6P0.5	6x2x0.5	0.35	1.0	12.1	0.9	1.6	16.9	484
RE-2Y(St)YSWAY PiMF 8P0.5	8x2x0.5	0.35	1.1	13.1	0.9	1.6	17.9	563
RE-2Y(St)YSWAY PiMF 10P0.5	10x2x0.5	0.35	1.2	15.1	0.9	1.5	19.9	782
RE-2Y(St)YSWAY PiMF 12P0.5	12x2x0.5	0.35	1.2	15.7	0.9	1.5	20.5	804
RE-2Y(St)YSWAY PiMF 16P0.5	16x2x0.5	0.35	1.2	17.8	1.25	1.6	23.5	970
RE-2Y(St)YSWAY PiMF 20P0.5	20x2x0.5	0.35	1.3	19.7	1.25	1.7	25.6	1145
RE-2Y(St)YSWAY PiMF 24P0.5	24x2x0.5	0.35	1.4	21.5	1.25	1.7	27.4	1272
0.75mm^2, Multipair								
RE-2Y(St)YSWAY PiMF 2P0.75	2x2x0.75	0.38	1.0	9.7	0.9	1.4	14.3	342
RE-2Y(St)YSWAY PiMF 4P0.75	4x2x0.75	0.38	1.0	11.2	0.9	1.4	15.8	439
RE-2Y(St)YSWAY PiMF 5P0.75	5x2x0.75	0.38	1.1	12.5	0.9	1.5	17.3	498
RE-2Y(St)YSWAY PiMF 6P0.75	6x2x0.75	0.38	1.1	13.6	0.9	1.5	18.4	565
RE-2Y(St)YSWAY PiMF 8P0.75	8x2x0.75	0.38	1.1	14.4	0.9	1.5	19.2	639
RE-2Y(St)YSWAY PiMF 10P0.75	10x2x0.75	0.38	1.2	16.6	1.25	1.6	22.3	878
RE-2Y(St)YSWAY PiMF 12P0.75	12x2x0.75	0.38	1.2	17.4	1.25	1.6	23.1	944
RE-2Y(St)YSWAY PiMF 16P0.75	16x2x0.75	0.38	1.3	19.8	1.25	1.7	25.7	1132
RE-2Y(St)YSWAY PiMF 20P0.75	20x2x0.75	0.38	1.4	22.0	1.25	1.7	27.9	1329
RE-2Y(St)YSWAY PiMF 24P0.75	24x2x0.75	0.38	1.5	24.0	1.25	1.8	30.1	1488
1.0mm^2, Multipair								
RE-2Y(St)YSWAY PiMF 2P1.0	2x2x1.0	0.4	1.0	10.4	0.9	1.4	15.0	377
RE-2Y(St)YSWAY PiMF 4P1.0	4x2x1.0	0.4	1.0	12.1	0.9	1.4	16.7	502
RE-2Y(St)YSWAY PiMF 5P1.0	5x2x1.0	0.4	1.1	13.5	0.9	1.5	18.3	567

Caledonian Cable Code	RE-2Y(St)YSWAY PiMF							
	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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YSWAY PiMF 6P1.0	6x2x1.0	0.4	1.1	14.7	0.9	1.5	19.5	658
RE-2Y(St)YSWAY PiMF 8P1.0	8x2x1.0	0.4	1.2	15.8	0.9	1.5	20.6	865
RE-2Y(St)YSWAY PiMF 10P1.0	10x2x1.0	0.4	1.2	18.0	1.25	1.6	23.7	994
RE-2Y(St)YSWAY PiMF 12P1.0	12x2x1.0	0.4	1.3	19.0	1.25	1.7	24.7	1112
RE-2Y(St)YSWAY PiMF 16P1.0	16x2x1.0	0.4	1.3	21.5	1.25	1.7	27.4	1363
RE-2Y(St)YSWAY PiMF 20P1.0	20x2x1.0	0.4	1.4	23.9	1.25	1.7	29.8	1512
RE-2Y(St)YSWAY PiMF 24P1.0	24x2x1.0	0.4	1.5	26.1	1.25	1.8	32.2	1996
1.3mm^2, Multipair								
RE-2Y(St)YSWAY PiMF 2P1.3	2x2x1.3	0.45	1.0	11.4	0.9	1.4	16.0	452
RE-2Y(St)YSWAY PiMF 4P1.3	4x2x1.3	0.45	1.1	13.4	0.9	1.5	18.2	577
RE-2Y(St)YSWAY PiMF 5P1.3	5x2x1.3	0.45	1.1	14.8	0.9	1.5	19.6	647
RE-2Y(St)YSWAY PiMF 6P1.3	6x2x1.3	0.45	1.2	16.3	0.9	1.6	21.3	858
RE-2Y(St)YSWAY PiMF 8P1.3	8x2x1.3	0.45	1.3	17.6	1.25	1.6	23.3	982
RE-2Y(St)YSWAY PiMF 10P1.3	10x2x1.3	0.45	1.3	20.0	1.25	1.7	25.9	1153
RE-2Y(St)YSWAY PiMF 12P1.3	12x2x1.3	0.45	1.4	21.1	1.25	1.7	27.0	1287
RE-2Y(St)YSWAY PiMF 16P1.3	16x2x1.3	0.45	1.5	24.1	1.25	1.8	30.2	1564
RE-2Y(St)YSWAY PiMF 20P1.3	20x2x1.3	0.45	1.6	26.8	1.25	1.9	33.1	1960
RE-2Y(St)YSWAY PiMF 24P1.3	24x2x1.3	0.45	1.7	29.2	1.25	2.0	36.4	2356
1.5mm^2, Multipair								
RE-2Y(St)YSWAY PiMF 2P1.5	2x2x1.5	0.45	1.0	11.8	0.9	1.5	16.6	475
RE-2Y(St)YSWAY PiMF 4P1.5	4x2x1.5	0.45	1.1	13.9	0.9	1.5	18.7	616
RE-2Y(St)YSWAY PiMF 5P1.5	5x2x1.5	0.45	1.2	15.5	0.9	1.5	20.3	819
RE-2Y(St)YSWAY PiMF 6P1.5	6x2x1.5	0.45	1.2	16.9	1.25	1.6	22.6	941
RE-2Y(St)YSWAY PiMF 8P1.5	8x2x1.5	0.45	1.3	18.2	1.25	1.7	24.1	1039
RE-2Y(St)YSWAY PiMF 10P1.5	10x2x1.5	0.45	1.4	21.0	1.25	1.7	26.9	1242
RE-2Y(St)YSWAY PiMF 12P1.5	12x2x1.5	0.45	1.4	21.9	1.25	1.7	27.8	1387
RE-2Y(St)YSWAY PiMF 16P1.5	16x2x1.5	0.45	1.5	25.1	1.25	1.8	31.2	1935

Caledonian Cable Code	RE-2Y(St)YSWAY PiMF							
	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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YSWAY PiMF 20P1.5	20x2x1.5	0.45	1.6	27.8	1.25	1.9	34.8	2227
RE-2Y(St)YSWAY PiMF 24P1.5	24x2x1.5	0.45	1.7	30.4	1.25	2.0	37.6	2545

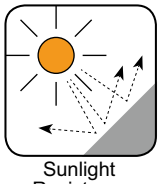
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

Standard


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

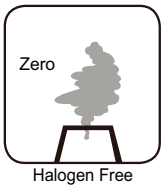

Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24
EN50266-2-4


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

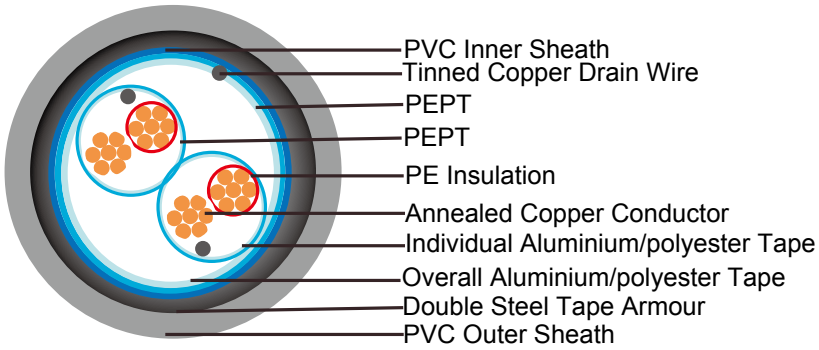


Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PE Insulated, PVC Sheathed, Individual and Overall Screened & Double Steel Tape Armoured Instrumentation Cables (Multipair)

RE-2Y(St)YDSTAY PiMF 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PE compound as per EN 50290. 2-23.
Pairs: Two insulated conductors uniformly twisted together with a lay not exceeding 100mm.
Binder tape: Polyester (PEPT) Tape.
Individual Screen: Aluminium/polyester tape is applied over the laid up pairs metallic side down in

contact with tinned copper drain wire, 0.5mm², covered with extruded PVC.
Binder tape: Polyester (PEPT) Tape.
Overall Screen: Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm².
Inner Sheath: PVC compound as per EN 50290-2-22.
Amouring: Double steel tape armour.
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: Red / White
Outer Sheath: Gray

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: 10 X Overall Diameter
Sunlight Resistance: UL 1581 section 1200
Oil Resistance: ASTM No: 2 (7 HRS 90°C)

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				
	Individual conductors	1G				
	Individual screens	1M				
Mutual Capacitance (1 kHz)	pF/m(Max.)	250				
Inductance	mH/km (Max.)	1				
L / R (ratio) (max.)	μH/Ω	25	25	25	40	40
Test Voltage	V (1min)					
	AC	2000				
	DC	3000				

CONSTRUCTION PARAMETERS

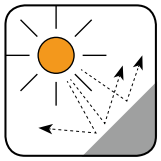
Caledonian Cable Code	RE-2Y(St)YDSTAY PiMF								
	No. of Pairs x2x Cross Section	Nominal Insulation Thick -ness	Nominal Inner Sheath Thick -ness	Nominal Overall Diameter Over Inner Sheath	Nominal Armour Steel Tape Thick -ness	Nominal Overall Diameter Over Armour	Nominal Outer Sheath Thick -ness	Nominal Overall Diameter	Approx. Weight
	No.x2 xmm^2	mm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-2Y(St)YDSTAY PiMF 2P1.5	2x2x1.5	0.6	1.2	14.0	0.2	14.8	1.5	17.8	390

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


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

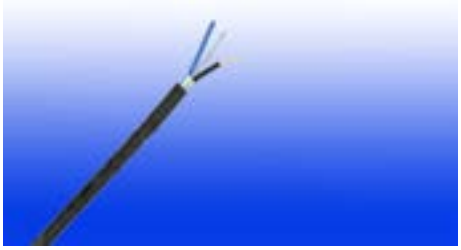

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

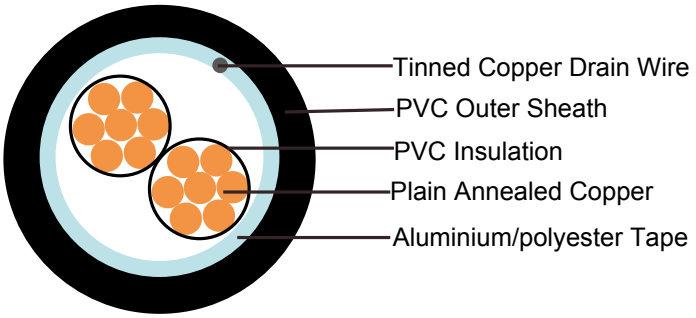
Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PVC Insulated, PVC Sheathed & Overall Screened Instrumentation Cables (Multicore)

RE-Y(St)Y 90°C / 500V





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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

500V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PVC compound as per EN 50290-2-21.
Overall Screen: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
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 numbered.
Outer Sheath: Black, 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	2.5
Insulation thickness (nominal)		mm	0.55	0.55	0.55	0.6	0.6	0.7
Conductor resistance (20°C)		Ω/km	36.7	25.0	18.5	14.2	12.3	7.4
Insulation resistance (20°C)		MΩ.km(Min.)	5000					
Mutual Capacitance (1 kHz)		pF/m(Max.)	250					
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500					
L / R (ratio) (max.)		μH/Ω	25	25	25	40	40	60
Operating voltage		V	500					
Test Voltage U_{rms}	Core to Core	V	2000					
	Core to Screen	V	2000					

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(St)Y				
	No. of Core x1xCross Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
0.5mm^2, Multicore					
RE-Y(St)Y 2C0.5	2x1x0.5	0.55	0.9	6.2	47
RE-Y(St)Y 3C0.5	3x1x0.5	0.55	0.9	6.5	50
RE-Y(St)Y 4C0.5	4x1x0.5	0.55	0.9	7.0	60
RE-Y(St)Y 5C0.5	5x1x0.5	0.55	0.9	7.6	71
RE-Y(St)Y 8C0.5	8x1x0.5	0.55	1.0	9.1	95
RE-Y(St)Y 10C0.5	10x1x0.5	0.55	1.0	10.4	127
RE-Y(St)Y 12C0.5	12x1x0.5	0.55	1.0	10.7	151
RE-Y(St)Y 14C0.5	14x1x0.5	0.55	1.0	11.3	162
RE-Y(St)Y 16C0.5	16x1x0.5	0.55	1.1	11.8	180
RE-Y(St)Y 20C0.5	20x1x0.5	0.55	1.1	13.3	222
RE-Y(St)Y 24C0.5	24x1x0.5	0.55	1.1	14.7	274
RE-Y(St)Y 27C0.5	27x1x0.5	0.55	1.2	15.0	282
RE-Y(St)Y 30C0.5	30x1x0.5	0.55	1.2	15.7	318
RE-Y(St)Y 37C0.5	37x1x0.5	0.55	1.2	16.9	372
RE-Y(St)Y 40C0.5	40x1x0.5	0.55	1.2	17.6	372
0.75mm^2, Multicore					
RE-Y(St)Y 2C0.75	2x1x0.75	0.55	0.9	6.5	51
RE-Y(St)Y 3C0.75	3x1x0.75	0.55	0.9	6.9	62
RE-Y(St)Y 4C0.75	4x1x0.75	0.55	0.9	7.4	74
RE-Y(St)Y 5C0.75	5x1x0.75	0.55	0.9	8.1	96
RE-Y(St)Y 8C0.75	8x1x0.75	0.55	1.0	9.7	126
RE-Y(St)Y 10C0.75	10x1x0.75	0.55	1.0	11.1	156
RE-Y(St)Y 12C0.75	12x1x0.75	0.55	1.0	11.5	183
RE-Y(St)Y 14C0.75	14x1x0.75	0.55	1.1	12.2	200
RE-Y(St)Y 16C0.75	16x1x0.75	0.55	1.1	12.9	224
RE-Y(St)Y 20C0.75	20x1x0.75	0.55	1.1	14.3	284
RE-Y(St)Y 24C0.75	24x1x0.75	0.55	1.2	16.0	324

Caledonian Cable Code	RE-Y(St)Y				
	No. of Core x1xCross Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
RE-Y(St)Y 27C0.75	27x1x0.75	0.55	1.2	16.3	363
RE-Y(St)Y 30C0.75	30x1x0.75	0.55	1.2	16.9	396
RE-Y(St)Y 37C0.75	37x1x0.75	0.55	1.2	18.2	472
RE-Y(St)Y 40C0.75	40x1x0.75	0.55	1.3	19.1	514
1.0mm^2, Multicore					
RE-Y(St)Y 2C1.0	2x1x1.0	0.55	0.9	6.9	61
RE-Y(St)Y 3C1.0	3x1x1.0	0.55	0.9	7.3	70
RE-Y(St)Y 4C1.0	4x1x1.0	0.55	0.9	7.9	85
RE-Y(St)Y 5C1.0	5x1x1.0	0.55	0.9	8.6	109
RE-Y(St)Y 8C1.0	8x1x1.0	0.55	1.0	10.3	157
RE-Y(St)Y 10C1.0	10x1x1.0	0.55	1.0	11.9	193
RE-Y(St)Y 12C1.0	12x1x1.0	0.55	1.0	12.2	214
RE-Y(St)Y 14C1.0	14x1x1.0	0.55	1.1	13.0	243
RE-Y(St)Y 16C1.0	16x1x1.0	0.55	1.1	13.7	280
RE-Y(St)Y 20C1.0	20x1x1.0	0.55	1.1	15.2	336
RE-Y(St)Y 24C1.0	24x1x1.0	0.55	1.2	17.0	414
RE-Y(St)Y 27C1.0	27x1x1.0	0.55	1.2	17.4	443
RE-Y(St)Y 30C1.0	30x1x1.0	0.55	1.2	18.0	484
RE-Y(St)Y 37C1.0	37x1x1.0	0.55	1.2	19.6	590
RE-Y(St)Y 40C1.0	40x1x1.0	0.55	1.3	20.4	631
1.3mm^2, Multicore					
RE-Y(St)Y 2C1.3	2x1x1.3	0.6	0.9	7.4	69
RE-Y(St)Y 3C1.3	3x1x1.3	0.6	0.9	7.9	83
RE-Y(St)Y 4C1.3	4x1x1.3	0.6	0.9	8.5	105
RE-Y(St)Y 5C1.3	5x1x1.3	0.6	1.0	9.5	135
RE-Y(St)Y 8C1.3	8x1x1.3	0.6	1.0	11.2	186
RE-Y(St)Y 10C1.3	10x1x1.3	0.6	1.1	13.2	228

Caledonian Cable Code	RE-Y(St)Y				
	No. of Core x1xCross Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
RE-Y(St)Y 12C1.3	12x1x1.3	0.6	1.1	13.6	269
RE-Y(St)Y 14C1.3	14x1x1.3	0.6	1.1	14.3	305
RE-Y(St)Y 16C1.3	16x1x1.3	0.6	1.1	15.0	351
RE-Y(St)Y 20C1.3	20x1x1.3	0.6	1.2	16.9	423
RE-Y(St)Y 24C1.3	24x1x1.3	0.6	1.2	18.7	507
RE-Y(St)Y 27C1.3	27x1x1.3	0.6	1.3	19.3	558
RE-Y(St)Y 30C1.3	30x1x1.3	0.6	1.3	20.0	611
RE-Y(St)Y 37C1.3	37x1x1.3	0.6	1.3	21.6	743
RE-Y(St)Y 40C1.3	40x1x1.3	0.6	1.4	22.7	796
1.5mm^2, Multicore					
RE-Y(St)Y 2C1.5	2x1x1.5	0.6	0.9	7.7	78
RE-Y(St)Y 3C1.5	3x1x1.5	0.6	0.9	8.1	98
RE-Y(St)Y 4C1.5	4x1x1.5	0.6	0.9	8.8	120
RE-Y(St)Y 5C1.5	5x1x1.5	0.6	1.0	9.8	153
RE-Y(St)Y 8C1.5	8x1x1.5	0.6	1.0	11.6	218
RE-Y(St)Y 10C1.5	10x1x1.5	0.6	1.1	13.7	268
RE-Y(St)Y 12C1.5	12x1x1.5	0.6	1.1	14.1	315
RE-Y(St)Y 14C1.5	14x1x1.5	0.6	1.1	14.8	341
RE-Y(St)Y 16C1.5	16x1x1.5	0.6	1.1	15.6	392
RE-Y(St)Y 20C1.5	20x1x1.5	0.6	1.2	17.6	484
RE-Y(St)Y 24C1.5	24x1x1.5	0.6	1.3	19.6	579
RE-Y(St)Y 27C1.5	27x1x1.5	0.6	1.3	20.1	626
RE-Y(St)Y 30C1.5	30x1x1.5	0.6	1.3	20.8	685
RE-Y(St)Y 37C1.5	37x1x1.5	0.6	1.4	22.6	834
RE-Y(St)Y 40C1.5	40x1x1.5	0.6	1.4	23.6	898
2.5mm^2, Multicore					
RE-Y(St)Y 2C2.5	2x1x2.5	0.7	0.9	8.9	111
RE-Y(St)Y 3C2.5	3x1x2.5	0.7	1.0	9.7	132

Caledonian Cable Code	RE-Y(St)Y				
	No. of Core x1xCross Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x1xmm^2	mm	mm	mm	kg/km
RE-Y(St)Y 4C2.5	4x1x2.5	0.7	1.0	10.5	169
RE-Y(St)Y 5C2.5	5x1x2.5	0.7	1.0	11.9	209
RE-Y(St)Y 8C2.5	8x1x2.5	0.7	1.1	13.9	321
RE-Y(St)Y 10C2.5	10x1x2.5	0.7	1.2	16.3	386
RE-Y(St)Y 12C2.5	12x1x2.5	0.7	1.2	16.9	447
RE-Y(St)Y 14C2.5	14x1x2.5	0.7	1.2	17.7	509
RE-Y(St)Y 16C2.5	16x1x2.5	0.7	1.3	18.9	585
RE-Y(St)Y 20C2.5	20x1x2.5	0.7	1.3	21.1	712
RE-Y(St)Y 24C2.5	24x1x2.5	0.7	1.4	23.6	855
RE-Y(St)Y 27C2.5	27x1x2.5	0.7	1.4	24.1	956
RE-Y(St)Y 30C2.5	30x1x2.5	0.7	1.5	25.2	1049
RE-Y(St)Y 37C2.5	37x1x2.5	0.7	1.5	27.2	1277
RE-Y(St)Y 40C2.5	40x1x2.5	0.7	1.6	28.5	1370

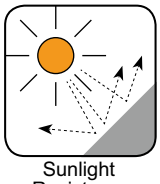
Note : Other conductor sizes & core configurations are available upon request.

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


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

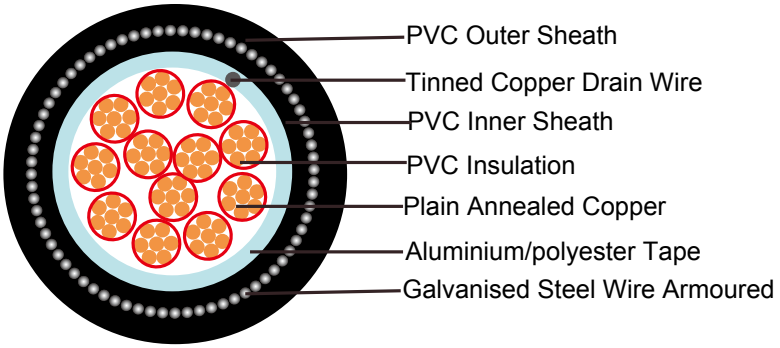

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PVC Insulated, PVC Sheathed, Overall Screened & Armoured Instrumentation Cables (Multicore)

RE-Y(St)YSWAY 90°C / 500V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

500V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PVC compound as per EN 50290-2-21.
Overall Screen: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
Inner Sheath: Thermoplastic PVC compound.
Armouring: Galvanised steel wire.

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 numbered.
Outer Sheath: Black, 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: 10 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	2.5
Insulation thickness (nominal)		mm	0.55	0.55	0.55	0.6	0.6	0.7
Conductor resistance (20°C)		Ω/km	36.7	25.0	18.5	14.2	12.3	7.4
Insulation resistance (20°C)		MΩ.km(Min.)	5000					
Mutual Capacitance (1 kHz)		pF/m(Max.)	250					
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	40
Operating voltage		V	500					
Test Voltage U_{rms}	Core to Core	V	2000					
	Core to Screen	V	2000					

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(St)YSWAY							
	No. of Core x1xCross 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.x1xmm^2	mm	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multicore								
RE-Y(St)YSWAY 2C0.5	2x1x0.5	0.55	0.9	6.2	0.9	1.3	10.6	210
RE-Y(St)YSWAY 3C0.5	3x1x0.5	0.55	0.9	6.5	0.9	1.3	10.9	230
RE-Y(St)YSWAY 4C0.5	4x1x0.5	0.55	0.9	7.0	0.9	1.3	11.4	253
RE-Y(St)YSWAY 5C0.5	5x1x0.5	0.55	0.9	7.6	0.9	1.3	12.0	283
RE-Y(St)YSWAY 8C0.5	8x1x0.5	0.55	1.0	9.1	0.9	1.4	13.7	344
RE-Y(St)YSWAY 10C0.5	10x1x0.5	0.55	1.0	10.4	0.9	1.4	15.0	399
RE-Y(St)YSWAY 12C0.5	12x1x0.5	0.55	1.0	10.7	0.9	1.4	15.3	442
RE-Y(St)YSWAY 14C0.5	14x1x0.5	0.55	1.0	11.3	0.9	1.4	15.9	474
RE-Y(St)YSWAY 16C0.5	16x1x0.5	0.55	1.1	11.8	0.9	1.4	16.4	505
RE-Y(St)YSWAY 20C0.5	20x1x0.5	0.55	1.1	13.3	0.9	1.5	18.1	569
RE-Y(St)YSWAY 24C0.5	24x1x0.5	0.55	1.1	14.7	0.9	1.5	19.5	642
RE-Y(St)YSWAY 27C0.5	27x1x0.5	0.55	1.2	15.0	0.9	1.5	19.8	808
RE-Y(St)YSWAY 30C0.5	30x1x0.5	0.55	1.2	15.7	0.9	1.5	20.5	848
RE-Y(St)YSWAY 37C0.5	37x1x0.5	0.55	1.2	16.9	0.9	1.6	21.9	963
RE-Y(St)YSWAY 40C0.5	40x1x0.5	0.55	1.2	17.6	1.25	1.6	23.3	1014
0.75mm^2, Multicore								
RE-Y(St)YSWAY 2C0.75	2x1x0.75	0.55	0.9	6.5	0.9	1.3	10.9	230
RE-Y(St)YSWAY 3C0.75	3x1x0.75	0.55	0.9	6.9	0.9	1.3	11.3	247
RE-Y(St)YSWAY 4C0.75	4x1x0.75	0.55	0.9	7.4	0.9	1.3	11.8	278
RE-Y(St)YSWAY 5C0.75	5x1x0.75	0.55	0.9	8.1	0.9	1.4	12.7	322
RE-Y(St)YSWAY 8C0.75	8x1x0.75	0.55	1.0	9.7	0.9	1.4	14.3	383
RE-Y(St)YSWAY 10C0.75	10x1x0.75	0.55	1.0	11.1	0.9	1.4	15.7	461
RE-Y(St)YSWAY 12C0.75	12x1x0.75	0.55	1.0	11.5	0.9	1.4	16.1	477
RE-Y(St)YSWAY 14C0.75	14x1x0.75	0.55	1.1	12.2	0.9	1.5	17.0	527
RE-Y(St)YSWAY 16C0.75	16x1x0.75	0.55	1.1	12.9	0.9	1.5	17.7	572
RE-Y(St)YSWAY 20C0.75	20x1x0.75	0.55	1.1	14.3	0.9	1.5	19.1	669
RE-Y(St)YSWAY 24C0.75	24x1x0.75	0.55	1.2	16.0	0.9	1.5	20.8	877
RE-Y(St)YSWAY 27C0.75	27x1x0.75	0.55	1.2	16.3	0.9	1.6	21.3	929
RE-Y(St)YSWAY 30C0.75	30x1x0.75	0.55	1.2	16.9	0.9	1.6	21.9	986
RE-Y(St)YSWAY 37C0.75	37x1x0.75	0.55	1.2	18.2	1.25	1.6	23.9	1102
RE-Y(St)YSWAY 40C0.75	40x1x0.75	0.55	1.3	19.1	1.25	1.6	24.8	1181

Caledonian Cable Code	RE-Y(St)YSWAY							
	No. of Core x1xCross 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.x1xmm^2	mm	mm	mm	mm	mm	mm	kg/km
1.0mm^2, Multicore								
RE-Y(St)YSWAY 2C1.0	2x1x1.0	0.55	0.9	6.9	0.9	1.3	11.3	247
RE-Y(St)YSWAY 3C1.0	3x1x1.0	0.55	0.9	7.3	0.9	1.3	11.7	270
RE-Y(St)YSWAY 4C1.0	4x1x1.0	0.55	0.9	7.9	0.9	1.4	12.5	299
RE-Y(St)YSWAY 5C1.0	5x1x1.0	0.55	0.9	8.6	0.9	1.4	13.2	342
RE-Y(St)YSWAY 8C1.0	8x1x1.0	0.55	1.0	10.3	0.9	1.4	14.9	424
RE-Y(St)YSWAY 10C1.0	10x1x1.0	0.55	1.0	11.9	0.9	1.4	16.5	514
RE-Y(St)YSWAY 12C1.0	12x1x1.0	0.55	1.0	12.2	0.9	1.5	17.0	548
RE-Y(St)YSWAY 14C1.0	14x1x1.0	0.55	1.1	13.0	0.9	1.5	17.8	590
RE-Y(St)YSWAY 16C1.0	16x1x1.0	0.55	1.1	13.7	0.9	1.5	18.5	649
RE-Y(St)YSWAY 20C1.0	20x1x1.0	0.55	1.1	15.2	0.9	1.5	20.0	864
RE-Y(St)YSWAY 24C1.0	24x1x1.0	0.55	1.2	17.0	0.9	1.6	22.0	1005
RE-Y(St)YSWAY 27C1.0	27x1x1.0	0.55	1.2	17.4	1.25	1.6	23.1	1058
RE-Y(St)YSWAY 30C1.0	30x1x1.0	0.55	1.2	18.0	1.25	1.6	23.7	1113
RE-Y(St)YSWAY 37C1.0	37x1x1.0	0.55	1.2	19.6	1.25	1.6	25.3	1271
RE-Y(St)YSWAY 40C1.0	40x1x1.0	0.55	1.3	20.4	1.25	1.7	26.3	1351
1.3mm^2, Multicore								
RE-Y(St)YSWAY 2C1.3	2x1x1.3	0.6	0.9	7.4	0.9	1.3	11.8	275
RE-Y(St)YSWAY 3C1.3	3x1x1.3	0.6	0.9	7.9	0.9	1.3	12.3	??
RE-Y(St)YSWAY 4C1.3	4x1x1.3	0.6	0.9	8.5	0.9	1.4	13.1	340
RE-Y(St)YSWAY 5C1.3	5x1x1.3	0.6	1.0	9.5	0.9	1.4	14.1	383
RE-Y(St)YSWAY 8C1.3	8x1x1.3	0.6	1.0	11.2	0.9	1.4	15.8	483
RE-Y(St)YSWAY 10C1.3	10x1x1.3	0.6	1.1	13.2	0.9	1.5	18.0	578
RE-Y(St)YSWAY 12C1.3	12x1x1.3	0.6	1.1	13.6	0.9	1.5	18.4	633
RE-Y(St)YSWAY 14C1.3	14x1x1.3	0.6	1.1	14.3	0.9	1.5	19.1	698
RE-Y(St)YSWAY 16C1.3	16x1x1.3	0.6	1.1	15.0	0.9	1.5	19.8	870
RE-Y(St)YSWAY 20C1.3	20x1x1.3	0.6	1.2	16.9	0.9	1.6	21.9	1014
RE-Y(St)YSWAY 24C1.3	24x1x1.3	0.6	1.2	18.7	1.25	1.6	24.4	1163
RE-Y(St)YSWAY 27C1.3	27x1x1.3	0.6	1.3	19.3	1.25	1.6	25.0	1227
RE-Y(St)YSWAY 30C1.3	30x1x1.3	0.6	1.3	20.0	1.25	1.6	25.7	1305
RE-Y(St)YSWAY 37C1.3	37x1x1.3	0.6	1.3	21.6	1.25	1.7	27.5	1504
RE-Y(St)YSWAY 40C1.3	40x1x1.3	0.6	1.4	22.7	1.25	1.7	28.6	1584

Caledonian Cable Code	RE-Y(St)YSWAY							
	No. of Core x1xCross 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.x1xmm^2	mm	mm	mm	mm	mm	mm	kg/km
1.5mm^2, Multicore								
RE-Y(St)YSWAY 2C1.5	2x1x1.5	0.6	0.9	7.7	0.9	1.3	12.1	279
RE-Y(St)YSWAY 3C1.5	3x1x1.5	0.6	0.9	8.1	0.9	1.4	12.7	322
RE-Y(St)YSWAY 4C1.5	4x1x1.5	0.6	0.9	8.8	0.9	1.4	13.4	347
RE-Y(St)YSWAY 5C1.5	5x1x1.5	0.6	1.0	9.8	0.9	1.4	14.4	392
RE-Y(St)YSWAY 8C1.5	8x1x1.5	0.6	1.0	11.6	0.9	1.4	16.2	518
RE-Y(St)YSWAY 10C1.5	10x1x1.5	0.6	1.1	13.7	0.9	1.5	18.5	614
RE-Y(St)YSWAY 12C1.5	12x1x1.5	0.6	1.1	14.1	0.9	1.5	18.9	670
RE-Y(St)YSWAY 14C1.5	14x1x1.5	0.6	1.1	14.8	0.9	1.5	19.6	742
RE-Y(St)YSWAY 16C1.5	16x1x1.5	0.6	1.1	15.6	0.9	1.5	20.4	925
RE-Y(St)YSWAY 20C1.5	20x1x1.5	0.6	1.2	17.6	1.25	1.6	23.3	1062
RE-Y(St)YSWAY 24C1.5	24x1x1.5	0.6	1.3	19.6	1.25	1.6	25.3	1218
RE-Y(St)YSWAY 27C1.5	27x1x1.5	0.6	1.3	20.1	1.25	1.6	25.8	1289
RE-Y(St)YSWAY 30C1.5	30x1x1.5	0.6	1.3	20.8	1.25	1.7	26.7	1418
RE-Y(St)YSWAY 37C1.5	37x1x1.5	0.6	1.4	22.6	1.25	1.7	28.5	1586
RE-Y(St)YSWAY 40C1.5	40x1x1.5	0.6	1.4	23.6	1.25	1.7	29.5	1687
2.5mm^2, Multicore								
RE-Y(St)YSWAY 2C2.5	2x1x2.5	0.7	0.9	8.9	0.9	1.4	13.5	364
RE-Y(St)YSWAY 3C2.5	3x1x2.5	0.7	1.0	9.7	0.9	1.4	14.3	389
RE-Y(St)YSWAY 4C2.5	4x1x2.5	0.7	1.0	10.5	0.9	1.4	15.1	430
RE-Y(St)YSWAY 5C2.5	5x1x2.5	0.7	1.0	11.9	0.9	1.4	16.5	547
RE-Y(St)YSWAY 8C2.5	8x1x2.5	0.7	1.1	13.9	0.9	1.5	18.7	684
RE-Y(St)YSWAY 10C2.5	10x1x2.5	0.7	1.2	16.3	0.9	1.6	21.3	952
RE-Y(St)YSWAY 12C2.5	12x1x2.5	0.7	1.2	16.9	0.9	1.6	21.9	1012
RE-Y(St)YSWAY 14C2.5	14x1x2.5	0.7	1.2	17.7	1.25	1.6	23.4	1126
RE-Y(St)YSWAY 16C2.5	16x1x2.5	0.7	1.3	18.9	1.25	1.6	24.6	1252
RE-Y(St)YSWAY 20C2.5	20x1x2.5	0.7	1.3	21.1	1.25	1.7	27.0	1456
RE-Y(St)YSWAY 24C2.5	24x1x2.5	0.7	1.4	23.6	1.25	1.7	29.5	1644
RE-Y(St)YSWAY 27C2.5	27x1x2.5	0.7	1.4	24.1	1.25	1.8	30.2	1811
RE-Y(St)YSWAY 30C2.5	30x1x2.5	0.7	1.5	25.2	1.25	1.8	31.3	2154
RE-Y(St)YSWAY 37C2.5	37x1x2.5	0.7	1.5	27.2	1.25	1.8	33.3	2477

Caledonian Cable Code	RE-Y(St)YSWAY							
	No. of Core x1xCross 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.x1xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-Y(St)YSWAY 40C2.5	40x1x2.5	0.7	1.6	28.5	1.25	1.9	34.8	2614

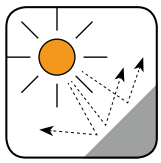
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

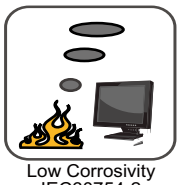
Standard


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


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

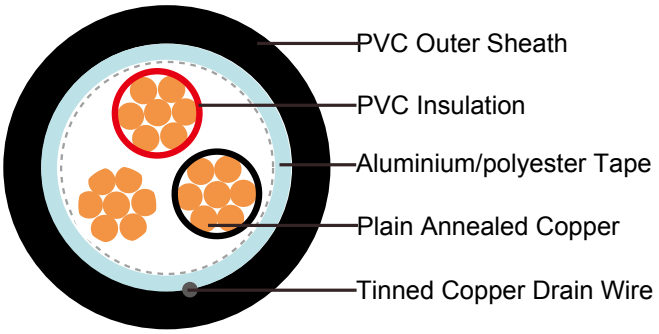

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standard.

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, 0.5mm^2
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, continuously numbered on white core(1, 2..)for multitriples.
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.)	250				
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	Nominal Overall Diameter	Approx. Weight
	No.x3xmm^2	mm	mm	mm	kg/km

RE-Y(St)Y 1T0.5	1x3x0.50	0.35	0.8	5.4	45
RE-Y(St)Y 1T0.75	1x3x0.75	0.38	0.9	6.1	59
RE-Y(St)Y 1T1.0	1x3x1.0	0.40	0.9	6.6	66
RE-Y(St)Y 1T1.3	1x3x1.3	0.45	0.9	7.2	86
RE-Y(St)Y 1T1.5	1x3x1.5	0.45	0.9	7.5	95

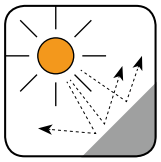
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

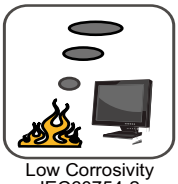
Standard


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


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

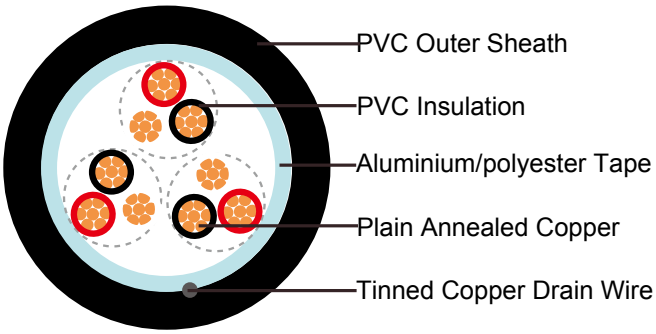

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PVC Insulated, PVC Sheathed & Overall Screened Instrumentation Cables (Multitriple)

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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

Recommended for use as fire protection messure 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-*

Note: Asterisk * denotes superseded standard.

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, 0.5mm^2.
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, continuously numbered on white core(1, 2..)for multitriples.
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				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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)Y				
	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
0.5mm^2 , Multi-striple					
RE-Y(St)Y 2T0.5	2x3x0.50	0.35	0.9	8.4	91
RE-Y(St)Y 4T0.5	4x3x0.50	0.35	1.0	9.8	123
RE-Y(St)Y 5T0.5	5x3x0.50	0.35	1.0	10.8	155
RE-Y(St)Y 6T0.5	6x3x0.50	0.35	1.0	12.1	185
RE-Y(St)Y 8T0.5	8x3x0.50	0.35	1.1	13.1	221
RE-Y(St)Y 10T0.5	10x3x0.50	0.35	1.1	14.7	275
RE-Y(St)Y 12T0.5	12x3x0.50	0.35	1.1	15.2	316
RE-Y(St)Y 16T0.5	16x3x0.50	0.35	1.2	17.4	414
RE-Y(St)Y 20T0.5	20x3x0.50	0.35	1.2	19.1	508
RE-Y(St)Y 24T0.5	24x3x0.50	0.35	1.3	20.9	594
0.75mm^2 , Multi-striple					
RE-Y(St)Y 2T0.75	2x3x0.75	0.38	0.9	9.3	114
RE-Y(St)Y 4T0.75	4x3x0.75	0.38	1.0	10.9	163
RE-Y(St)Y 5T0.75	5x3x0.75	0.38	1.0	12.0	199
RE-Y(St)Y 6T0.75	6x3x0.75	0.38	1.1	13.7	245
RE-Y(St)Y 8T0.75	8x3x0.75	0.38	1.1	14.7	296
RE-Y(St)Y 10T0.75	10x3x0.75	0.38	1.2	16.7	366
RE-Y(St)Y 12T0.75	12x3x0.75	0.38	1.2	17.3	423
RE-Y(St)Y 16T0.75	16x3x0.75	0.38	1.3	19.7	555
RE-Y(St)Y 20T0.75	20x3x0.75	0.38	1.3	21.7	681
RE-Y(St)Y 24T0.75	24x3x0.75	0.38	1.4	23.7	802
1.0mm^2 , Multi-striple					
RE-Y(St)Y 2T1.0	2x3x1.0	0.4	1.0	10.4	135
RE-Y(St)Y 4T1.0	4x3x1.0	0.4	1.0	11.9	202
RE-Y(St)Y 5T1.0	5x3x1.0	0.4	1.0	13.2	251
RE-Y(St)Y 6T1.0	6x3x1.0	0.4	1.1	15.0	303
RE-Y(St)Y 8T1.0	8x3x1.0	0.4	1.1	16.1	379
RE-Y(St)Y 10T1.0	10x3x1.0	0.4	1.2	18.4	461

Caledonian Cable Code	RE-Y(St)Y				
	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-Y(St)Y 12T1.0	12x3x1.0	0.4	1.2	19.0	544
RE-Y(St)Y 16T1.0	16x3x1.0	0.4	1.3	21.7	717
RE-Y(St)Y 20T1.0	20x3x1.0	0.4	1.4	24.1	880
RE-Y(St)Y 24T1.0	24x3x1.0	0.4	1.4	26.1	1048
1.3mm^2 , Multi-striple					
RE-Y(St)Y 2T1.3	2x3x1.3	0.45	1.0	11.5	175
RE-Y(St)Y 4T1.3	4x3x1.3	0.45	1.1	13.4	258
RE-Y(St)Y 5T1.3	5x3x1.3	0.45	1.1	14.8	318
RE-Y(St)Y 6T1.3	6x3x1.3	0.45	1.2	16.9	387
RE-Y(St)Y 8T1.3	8x3x1.3	0.45	1.2	18.1	474
RE-Y(St)Y 10T1.3	10x3x1.3	0.45	1.3	20.7	589
RE-Y(St)Y 12T1.3	12x3x1.3	0.45	1.3	21.4	695
RE-Y(St)Y 16T1.3	16x3x1.3	0.45	1.4	24.4	918
RE-Y(St)Y 20T1.3	20x3x1.3	0.45	1.5	27.1	1124
RE-Y(St)Y 24T1.3	24x3x1.3	0.45	1.6	29.6	1336
1.5mm^2 , Multi-striple					
RE-Y(St)Y 2T1.5	2x3x1.5	0.45	1.0	11.9	191
RE-Y(St)Y 4T1.5	4x3x1.5	0.45	1.1	14.0	287
RE-Y(St)Y 5T1.5	5x3x1.5	0.45	1.1	15.4	355
RE-Y(St)Y 6T1.5	6x3x1.5	0.45	1.2	17.6	432
RE-Y(St)Y 8T1.5	8x3x1.5	0.45	1.3	19.1	540
RE-Y(St)Y 10T1.5	10x3x1.5	0.45	1.3	21.6	672
RE-Y(St)Y 12T1.5	12x3x1.5	0.45	1.4	22.5	779
RE-Y(St)Y 16T1.5	16x3x1.5	0.45	1.5	25.7	1031
RE-Y(St)Y 20T1.5	20x3x1.5	0.45	1.6	28.6	1265
RE-Y(St)Y 24T1.5	24x3x1.5	0.45	1.7	31.1	1508

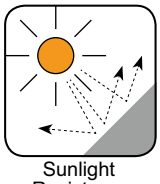
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

Standard

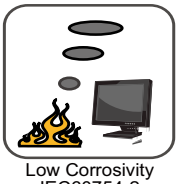
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

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



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

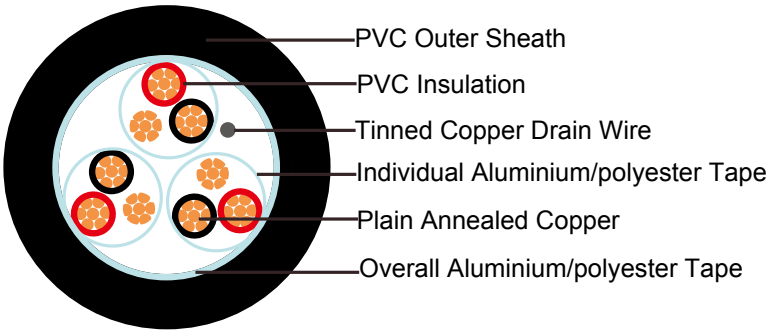
Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Oil Resistance
ICEA S-73-532

PVC Insulated, PVC Sheathed, Individual & Overall Screened Instrumentation Cables (Multitriple)

RE-Y(St)Y-TiMF 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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standard.

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.
Individual Screen: Aluminium/polyester tape is applied over each pair metallic side down in contact

with tinned copper drain wire, 0.5mm².
Triple: Three conductors twisted to form a triple.
**TiMF Construction: Polyester tape above the triple, AL-PES tape over solid tinned copper drain wire, 0,60 mm.
Lay-up: TiMF 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 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, continuously numbered on white core(1, 2..)for multitriples.
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
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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(St)Y-TiMF				
	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
0.5mm^2, Multi-striple					
RE-Y(St)Y-TiMF 2T0.5	2x3x0.5	0.35	1.0	9.7	104
RE-Y(St)Y-TiMF 4T0.5	4x3x0.5	0.35	1.0	11.1	151
RE-Y(St)Y-TiMF 5T0.5	5x3x0.5	0.35	1.1	12.4	183
RE-Y(St)Y-TiMF 6T0.5	6x3x0.5	0.35	1.1	14.0	225
RE-Y(St)Y-TiMF 8T0.5	8x3x0.5	0.35	1.1	14.9	283
RE-Y(St)Y-TiMF 10T0.5	10x3x0.5	0.35	1.2	17.0	348
RE-Y(St)Y-TiMF 12T0.5	12x3x0.5	0.35	1.2	17.6	385
RE-Y(St)Y-TiMF 16T0.5	16x3x0.5	0.35	1.3	20.1	504
RE-Y(St)Y-TiMF 20T0.5	20x3x0.5	0.35	1.4	22.3	616
RE-Y(St)Y-TiMF 24T0.5	24x3x0.5	0.35	1.5	24.4	749
0.75mm^2, Multi-striple					
RE-Y(St)Y-TiMF 2T0.75	2x3x0.75	0.38	1.0	10.6	121
RE-Y(St)Y-TiMF 4T0.75	4x3x0.75	0.38	1.1	12.4	186
RE-Y(St)Y-TiMF 5T0.75	5x3x0.75	0.38	1.1	13.7	242
RE-Y(St)Y-TiMF 6T0.75	6x3x0.75	0.38	1.1	15.4	280
RE-Y(St)Y-TiMF 8T0.75	8x3x0.75	0.38	1.2	16.7	362
RE-Y(St)Y-TiMF 10T0.75	10x3x0.75	0.38	1.3	19.0	446
RE-Y(St)Y-TiMF 12T0.75	12x3x0.75	0.38	1.3	19.7	495
RE-Y(St)Y-TiMF 16T0.75	16x3x0.75	0.38	1.4	22.5	652
RE-Y(St)Y-TiMF 20T0.75	20x3x0.75	0.38	1.5	24.9	833
RE-Y(St)Y-TiMF 24T0.75	24x3x0.75	0.38	1.6	27.2	966
1.0mm^2, Multi-striple					
RE-Y(St)Y-TiMF 2T1.0	2x3x1.0	0.4	1.0	11.5	154
RE-Y(St)Y-TiMF 4T1.0	4x3x1.0	0.4	1.1	13.4	227
RE-Y(St)Y-TiMF 5T1.0	5x3x1.0	0.4	1.1	14.8	286
RE-Y(St)Y-TiMF 6T1.0	6x3x1.0	0.4	1.2	16.9	348
RE-Y(St)Y-TiMF 8T1.0	8x3x1.0	0.4	1.2	18.1	443

Caledonian Cable Code	RE-Y(St)Y-TiMF				
	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-Y(St)Y-TiMF 10T1.0	10x3x1.0	0.4	1.3	20.7	545
RE-Y(St)Y-TiMF 12T1.0	12x3x1.0	0.4	1.3	21.4	621
RE-Y(St)Y-TiMF 16T1.0	16x3x1.0	0.4	1.4	24.4	836
RE-Y(St)Y-TiMF 20T1.0	20x3x1.0	0.4	1.5	27.1	1001
RE-Y(St)Y-TiMF 24T1.0	24x3x1.0	0.4	1.6	29.6	1207
1.3mm^2, Multi-striple					
RE-Y(St)Y-TiMF 2T1.3	2x3x1.3	0.45	1.1	12.8	185
RE-Y(St)Y-TiMF 4T1.3	4x3x1.3	0.45	1.1	14.7	283
RE-Y(St)Y-TiMF 5T1.3	5x3x1.3	0.45	1.2	16.5	357
RE-Y(St)Y-TiMF 6T1.3	6x3x1.3	0.45	1.3	18.8	425
RE-Y(St)Y-TiMF 8T1.3	8x3x1.3	0.45	1.3	20.1	553
RE-Y(St)Y-TiMF 10T1.3	10x3x1.3	0.45	1.4	23.0	682
RE-Y(St)Y-TiMF 12T1.3	12x3x1.3	0.45	1.5	24.0	767
RE-Y(St)Y-TiMF 16T1.3	16x3x1.3	0.45	1.6	27.4	1022
RE-Y(St)Y-TiMF 20T1.3	20x3x1.3	0.45	1.7	30.4	1252
RE-Y(St)Y-TiMF 24T1.3	24x3x1.3	0.45	1.8	33.1	1511
1.5mm^2, Multi-striple					
RE-Y(St)Y-TiMF 2T1.5	2x3x1.5	0.45	1.1	13.2	207
RE-Y(St)Y-TiMF 4T1.5	4x3x1.5	0.45	1.2	15.4	314
RE-Y(St)Y-TiMF 5T1.5	5x3x1.5	0.45	1.2	17.1	396
RE-Y(St)Y-TiMF 6T1.5	6x3x1.5	0.45	1.3	19.5	482
RE-Y(St)Y-TiMF 8T1.5	8x3x1.5	0.45	1.4	21.1	617
RE-Y(St)Y-TiMF 10T1.5	10x3x1.5	0.45	1.5	24.1	765
RE-Y(St)Y-TiMF 12T1.5	12x3x1.5	0.45	1.5	24.9	867
RE-Y(St)Y-TiMF 16T1.5	16x3x1.5	0.45	1.6	28.4	1140
RE-Y(St)Y-TiMF 20T1.5	20x3x1.5	0.45	1.7	31.6	1421
RE-Y(St)Y-TiMF 24T1.5	24x3x1.5	0.45	1.8	34.4	1691

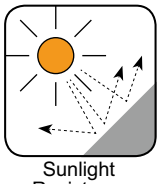
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

Standard

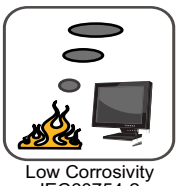
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

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



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

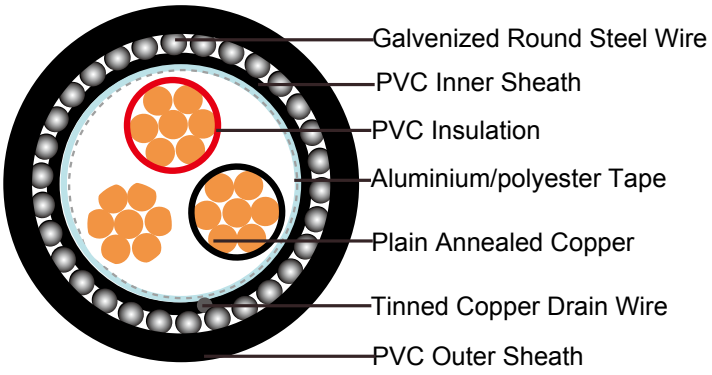
Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Oil Resistance
ICEA S-73-532

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

RE-Y(St)YSWAY 70°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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

Recommended for use as fire protection messure 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*

Note: Asterisk * denotes superseded standard.

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.

Pair: Two conductors twisted to form a pair.
Lay-up: Pairs laid up in layers of optimum pitch.
Separator: Polyester tape.
Overall Screen: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
Inner Sheath: Thermoplastic PVC compound.
Armour: Galvenized round steel wire, EN 10257-1.
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, continuously numbered on white core(1, 2..)for multitriples.
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
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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500				
L / R (ratio) (max.)		μH/Ω	25	25	25	40	40
Inductance		mH/km(Max.)	1				
Operating voltage Urms		V	300				
Test Voltage	Core to Core	V	1500				
	Core to Screen	V	1500				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(St)YSWAY							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-Y(St)YSWAY 1T0.5	1x3x0.50	0.35	0.8	5.4	0.9	1.3	9.8	200
RE-Y(St)YSWAY 1T0.75	1x3x0.75	0.38	0.9	6.1	0.9	1.3	10.5	220
RE-Y(St)YSWAY 1T1.0	1x3x1.0	0.4	0.9	6.6	0.9	1.3	11.0	244
RE-Y(St)YSWAY 1T1.3	1x3x1.3	0.45	0.9	7.2	0.9	1.3	11.6	268
RE-Y(St)YSWAY 1T1.5	1x3x1.5	0.45	0.9	7.5	0.9	1.3	11.9	293

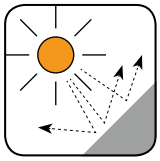
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

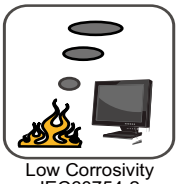
Standard


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


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

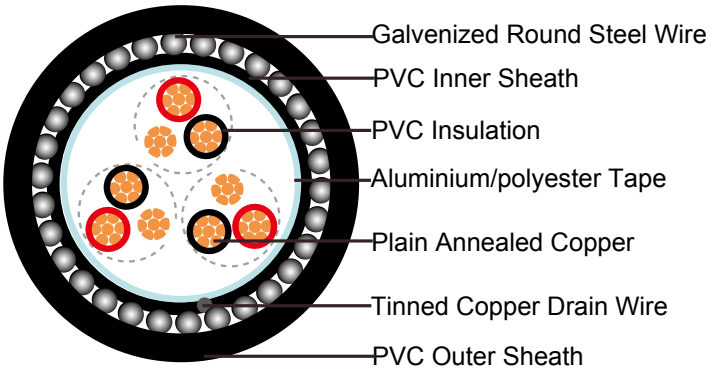

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PVC Insulated, PVC Sheathed, Overall Screened & Armoured Instrumentation Cables (Multitriple)

RE-Y(St)YSWAY 70°C / 300 V



APPLICATION:

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Recommended for indoor and outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

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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*

Note: Asterisk * denotes superseded standard.

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.
Pair: Two conductors twisted to form a pair.

Lay-up: Pairs laid up in layers of optimum pitch.
Separator: Polyester tape.
Overall Screen: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
Inner Sheath: Thermoplastic PVC compound.
Armour: Galvenized round steel wire, EN 10257-1.
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, continuously numbered on white core(1, 2..)for multitriples.
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
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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500				
L / R (ratio) (max.)		μH/Ω	25	25	25	40	40
Inductance		mH/km(Max.)	1				
Operating voltage Urms		V	300				
Test Voltage	Core to Core	V	1500				
	Core to Screen	V	1500				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(St)YSWAY							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multi-striple								
RE-Y(St)YSWAY 2T0.5	2x3x0.5	0.35	0.9	8.4	0.9	1.4	13.0	326
RE-Y(St)YSWAY 4T0.5	4x3x0.5	0.35	1.0	9.8	0.9	1.4	14.4	386
RE-Y(St)YSWAY 5T0.5	5x3x0.5	0.35	1.0	10.8	0.9	1.4	15.4	454
RE-Y(St)YSWAY 6T0.5	6x3x0.5	0.35	1.0	12.1	0.9	1.4	16.7	513
RE-Y(St)YSWAY 8T0.5	8x3x0.5	0.35	1.1	13.1	0.9	1.5	17.9	570
RE-Y(St)YSWAY 10T0.5	10x3x0.5	0.35	1.1	14.7	0.9	1.5	19.5	658
RE-Y(St)YSWAY 12T0.5	12x3x0.5	0.35	1.1	15.2	0.9	1.5	20.0	844
RE-Y(St)YSWAY 16T0.5	16x3x0.5	0.35	1.2	17.4	0.9	1.6	22.4	1001
RE-Y(St)YSWAY 20T0.5	20x3x0.5	0.35	1.2	19.1	1.25	1.6	24.8	1177
RE-Y(St)YSWAY 24T0.5	24x3x0.5	0.35	1.3	20.9	1.25	1.7	26.8	1327
0.75mm^2, Multi-striple								
RE-Y(St)YSWAY 2T0.75	2x3x0.75	0.38	1.0	10.6	0.9	1.4	13.9	369
RE-Y(St)YSWAY 4T0.75	4x3x0.75	0.38	1.1	12.4	0.9	1.4	15.5	462
RE-Y(St)YSWAY 5T0.75	5x3x0.75	0.38	1.1	13.7	0.9	1.4	16.6	526
RE-Y(St)YSWAY 6T0.75	6x3x0.75	0.38	1.1	15.4	0.9	1.5	18.5	614
RE-Y(St)YSWAY 8T0.75	8x3x0.75	0.38	1.2	16.7	0.9	1.5	19.5	697
RE-Y(St)YSWAY 10T0.75	10x3x0.75	0.38	1.3	19.0	0.9	1.5	21.5	918
RE-Y(St)YSWAY 12T0.75	12x3x0.75	0.38	1.3	19.7	0.9	1.7	22.3	1027
RE-Y(St)YSWAY 16T0.75	16x3x0.75	0.38	1.4	22.5	1.25	1.6	25.4	1237
RE-Y(St)YSWAY 20T0.75	20x3x0.75	0.38	1.5	24.9	1.25	1.7	27.6	1443
RE-Y(St)YSWAY 24T0.75	24x3x0.75	0.38	1.6	27.2	1.25	1.7	29.6	1628
1.0mm^2, Multi-striple								
RE-Y(St)YSWAY 2T1.0	2x3x1.0	0.4	1.0	11.5	0.9	1.4	15.0	403
RE-Y(St)YSWAY 4T1.0	4x3x1.0	0.4	1.1	13.4	0.9	1.4	16.5	528
RE-Y(St)YSWAY 5T1.0	5x3x1.0	0.4	1.1	14.8	0.9	1.5	18.0	619
RE-Y(St)YSWAY 6T1.0	6x3x1.0	0.4	1.2	16.9	0.9	1.5	19.8	829
RE-Y(St)YSWAY 8T1.0	8x3x1.0	0.4	1.2	18.1	0.9	1.5	20.9	945

Caledonian Cable Code	RE-Y(St)YSWAY							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-Y(St)YSWAY 10T1.0	10x3x1.0	0.4	1.3	20.7	0.9	1.6	24.1	1074
RE-Y(St)YSWAY 12T1.0	12x3x1.0	0.4	1.3	21.4	1.25	1.6	24.7	1212
RE-Y(St)YSWAY 16T1.0	16x3x1.0	0.4	1.4	24.4	1.25	1.7	27.6	1478
RE-Y(St)YSWAY 20T1.0	20x3x1.0	0.4	1.5	27.1	1.25	1.7	30.0	1736
RE-Y(St)YSWAY 24T1.0	24x3x1.0	0.4	1.6	29.6	1.25	1.8	32.2	2197
1.3mm^2, Multi-striple								
RE-Y(St)YSWAY 2T1.3	2x3x1.3	0.45	1.1	12.8	0.9	1.4	16.1	488
RE-Y(St)YSWAY 4T1.3	4x3x1.3	0.45	1.1	14.7	0.9	1.5	18.2	620
RE-Y(St)YSWAY 5T1.3	5x3x1.3	0.45	1.2	16.5	0.9	1.5	19.6	720
RE-Y(St)YSWAY 6T1.3	6x3x1.3	0.45	1.3	18.8	0.9	1.5	21.7	952
RE-Y(St)YSWAY 8T1.3	8x3x1.3	0.45	1.3	20.1	0.9	1.6	23.8	1076
RE-Y(St)YSWAY 10T1.3	10x3x1.3	0.45	1.4	23.0	1.25	1.7	26.6	1320
RE-Y(St)YSWAY 12T1.3	12x3x1.3	0.45	1.5	24.0	1.25	1.7	27.3	1454
RE-Y(St)YSWAY 16T1.3	16x3x1.3	0.45	1.6	27.4	1.25	1.8	30.5	1785
RE-Y(St)YSWAY 20T1.3	20x3x1.3	0.45	1.7	30.4	1.25	1.8	33.2	2323
RE-Y(St)YSWAY 24T1.3	24x3x1.3	0.45	1.8	33.1	1.60	1.9	36.6	2633
1.5mm^2, Multi-striple								
RE-Y(St)YSWAY 2T1.5	2x3x1.5	0.45	1.1	13.2	0.9	1.4	16.5	491
RE-Y(St)YSWAY 4T1.5	4x3x1.5	0.45	1.2	15.4	0.9	1.5	18.8	673
RE-Y(St)YSWAY 5T1.5	5x3x1,5	0.45	1.2	17.1	0.9	1.5	20.2	894
RE-Y(St)YSWAY 6T1.5	6x3x1,5	0.45	1.3	19.5	0.9	1.6	22.6	1021
RE-Y(St)YSWAY 8T1.5	8x3x1,5	0.45	1.4	21.1	1.25	1.6	24.8	1208
RE-Y(St)YSWAY 10T1.5	10x3x1,5	0.45	1.5	24.1	1.25	1.7	27.5	1433
RE-Y(St)YSWAY 12T1.5	12x3x1,5	0.45	1.5	24.9	1.25	1.7	28.4	1565
RE-Y(St)YSWAY 16T1.5	16x3x1,5	0.45	1.6	28.4	1.25	1.8	31.8	2157
RE-Y(St)YSWAY 20T1.5	20x3x1,5	0.45	1.7	31.6	1.25	1.9	34.9	2510
RE-Y(St)YSWAY 24T1.5	24x3x1,5	0.45	1.8	34.4	1.60	2.0	38.3	2873

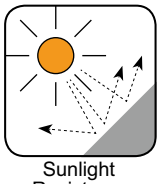
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

Standard

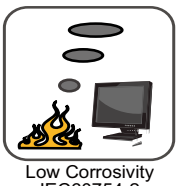
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

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



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

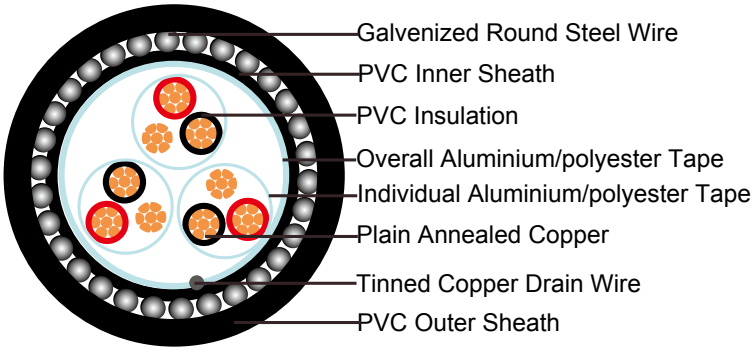
Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Oil Resistance
ICEA S-73-532

PVC Insulated, PVC Sheathed, Individual & Overall Screened, Armoured Instrumentation Cables (Multitriple)

RE-Y(St)YSWAY-TiMF 70°C / 300 V



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Note: Asterisk * denotes superseded standard.

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.

Individual Screen: Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm².
Pair: Two conductors twisted to form a pair.
Lay-up: Pairs laid up in layers of optimum pitch.
Separator: Polyester tape.
Overall Screen: Aluminium/polyester tape with tinned copper drain wire, 0.5mm^2.
Inner Sheath: Thermoplastic PVC compound.
Armour: Galvenized round steel wire, EN 10257-1.
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, continuously numbered on white core(1, 2..)for multitriples.
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
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	0.4	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)		pF/m(Max.)	250				
Inductance		mH/km(Max.)	1				
Capacitance unbalance(1 kHz)		pF/500 m (Max.)	500				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(St)YSWAY-TiMF							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multi-striple								
RE-Y(St)YSWAY-TiMF 2T0.5	2x3x0.5	0.35	1.0	9.7	0.9	1.4	14.3	363
RE-Y(St)YSWAY-TiMF 4T0.5	4x3x0.5	0.35	1.0	11.1	0.9	1.4	15.7	456
RE-Y(St)YSWAY-TiMF 5T0.5	5x3x0.5	0.35	1.1	12.4	0.9	1.5	17.2	516
RE-Y(St)YSWAY-TiMF 6T0.5	6x3x0.5	0.35	1.1	14.0	0.9	1.5	18.8	611
RE-Y(St)YSWAY-TiMF 8T0.5	8x3x0.5	0.35	1.1	14.9	0.9	1.5	19.7	766
RE-Y(St)YSWAY-TiMF 10T0.5	10x3x0.5	0.35	1.2	17.0	1.25	1.6	22.7	950
RE-Y(St)YSWAY-TiMF 12T0.5	12x3x0.5	0.35	1.2	17.6	1.25	1.6	23.3	975
RE-Y(St)YSWAY-TiMF 16T0.5	16x3x0.5	0.35	1.3	20.1	1.25	1.7	26.0	1169
RE-Y(St)YSWAY-TiMF 20T0.5	20x3x0.5	0.35	1.4	22.3	1.25	1.7	28.2	1365
RE-Y(St)YSWAY-TiMF 24T0.5	24x3x0.5	0.35	1.5	24.4	1.25	1.8	30.5	1604
0.75mm^2, Multi-striple								
RE-Y(St)YSWAY-TiMF 2T0.75	2x3x0.75	0.38	1.0	10.6	0.9	1.4	15.2	408
RE-Y(St)YSWAY-TiMF 4T0.75	4x3x0.75	0.38	1.1	12.4	0.9	1.5	17.2	521
RE-Y(St)YSWAY-TiMF 5T0.75	5x3x0.75	0.38	1.1	13.7	0.9	1.5	18.5	590
RE-Y(St)YSWAY-TiMF 6T0.75	6x3x0.75	0.38	1.1	15.4	0.9	1.5	20.2	819
RE-Y(St)YSWAY-TiMF 8T0.75	8x3x0.75	0.38	1.2	16.7	0.9	1.6	21.7	941
RE-Y(St)YSWAY-TiMF 10T0.75	10x3x0.75	0.38	1.3	19.0	1.25	1.6	24.7	1103
RE-Y(St)YSWAY-TiMF 12T0.75	12x3x0.75	0.38	1.3	19.7	1.25	1.7	25.6	1176
RE-Y(St)YSWAY-TiMF 16T0.75	16x3x0.75	0.38	1.4	22.5	1.25	1.7	28.4	1439
RE-Y(St)YSWAY-TiMF 20T0.75	20x3x0.75	0.38	1.5	24.9	1.25	1.8	31.0	1804
RE-Y(St)YSWAY-TiMF 24T0.75	24x3x0.75	0.38	1.6	27.2	1.25	1.9	33.5	2164
1.0mm^2, Multi-striple								
RE-Y(St)YSWAY-TiMF 2T1.0	2x3x1.0	0.4	1.0	11.5	0.9	1.4	16.1	447
RE-Y(St)YSWAY-TiMF 4T1.0	4x3x1.0	0.4	1.1	13.4	0.9	1.5	18.2	579
RE-Y(St)YSWAY-TiMF 5T1.0	5x3x1.0	0.4	1.1	14.8	0.9	1.5	19.6	688

Caledonian Cable Code	RE-Y(St)YSWAY-TiMF							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-Y(St)YSWAY-TiMF 6T1.0	6x3x1.0	0.4	1.2	16.9	0.9	1.5	21.7	913
RE-Y(St)YSWAY-TiMF 8T1.0	8x3x1.0	0.4	1.2	18.1	1.25	1.6	23.8	1033
RE-Y(St)YSWAY-TiMF 10T1.0	10x3x1.0	0.4	1.3	20.7	1.25	1.7	26.6	1277
RE-Y(St)YSWAY-TiMF 12T1.0	12x3x1.0	0.4	1.3	21.4	1.25	1.7	27.3	1380
RE-Y(St)YSWAY-TiMF 16T1.0	16x3x1.0	0.4	1.4	24.4	1.25	1.7	30.3	1686
RE-Y(St)YSWAY-TiMF 20T1.0	20x3x1.0	0.4	1.5	27.1	1.25	1.8	33.2	2200
RE-Y(St)YSWAY-TiMF 24T1.0	24x3x1.0	0.4	1.6	29.6	1.6	1.9	36.6	2504
1.3mm^2, Multi-striple								
RE-Y(St)YSWAY-TiMF 2T1.3	2x3x1.3	0.45	1.1	12.8	0.9	1.5	17.6	532
RE-Y(St)YSWAY-TiMF 4T1.3	4x3x1.3	0.45	1.1	14.7	0.9	1.5	19.5	684
RE-Y(St)YSWAY-TiMF 5T1.3	5x3x1.3	0.45	1.2	16.5	0.9	1.6	21.5	924
RE-Y(St)YSWAY-TiMF 6T1.3	6x3x1.3	0.45	1.3	18.8	1.25	1.6	24.5	1089
RE-Y(St)YSWAY-TiMF 8T1.3	8x3x1.3	0.45	1.3	20.1	1.25	1.7	26.0	1249
RE-Y(St)YSWAY-TiMF 10T1.3	10x3x1.3	0.45	1.4	23.0	1.25	1.8	29.1	1482
RE-Y(St)YSWAY-TiMF 12T1.3	12x3x1.3	0.45	1.5	24.0	1.25	1.8	30.1	1592
RE-Y(St)YSWAY-TiMF 16T1.3	16x3x1.3	0.45	1.6	27.4	1.25	1.9	33.7	2222
RE-Y(St)YSWAY-TiMF 20T1.3	20x3x1.3	0.45	1.7	30.4	1.6	2.0	37.6	2592
RE-Y(St)YSWAY-TiMF 24T1.3	24x3x1.3	0.45	1.8	33.1	1.6	2.0	40.3	2957
1.5mm^2, Multi-striple								
RE-Y(St)YSWAY-TiMF 2T1.5	2x3x1.5	0.45	1.1	13.2	0.9	1.5	18.0	531
RE-Y(St)YSWAY-TiMF 4T1.5	4x3x1.5	0.45	1.2	15.4	0.9	1.5	20.2	817
RE-Y(St)YSWAY-TiMF 5T1.5	5x3x1.5	0.45	1.2	17.1	1.25	1.6	22.8	998
RE-Y(St)YSWAY-TiMF 6T1.5	6x3x1.5	0.45	1.3	19.5	1.25	1.6	25.2	1162
RE-Y(St)YSWAY-TiMF 8T1.5	8x3x1.5	0.45	1.4	21.1	1.25	1.7	27.0	1304
RE-Y(St)YSWAY-TiMF 10T1.5	10x3x1.5	0.45	1.5	24.1	1.25	1.8	30.2	1541
RE-Y(St)YSWAY-TiMF 12T1.5	12x3x1.5	0.45	1.5	24.9	1.25	1.8	31.0	1952
RE-Y(St)YSWAY-TiMF 16T1.5	16x3x1.5	0.45	1.6	28.4	1.6	1.9	35.4	2384
RE-Y(St)YSWAY-TiMF 20T1.5	20x3x1.5	0.45	1.7	31.6	1.6	2.0	38.8	2795

Caledonian Cable Code	RE-Y(St)YSWAY-TiMF							
	No. of Triples x3xCross 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.x3xmm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-Y(St)YSWAY-TiMF 24T1.5	24x3x1.5	0.45	1.8	34.4	1.6	2.1	41.8	3093

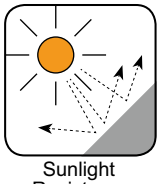
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

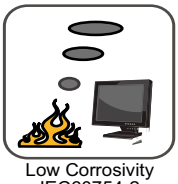
Standard


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


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

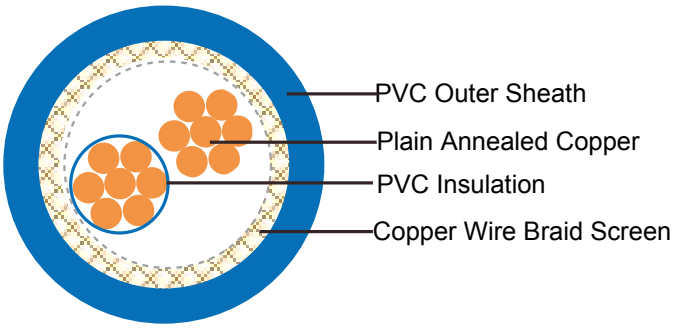

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PVC Insulated, PVC Sheathed, CWB Screened Instrumentation Cables (Single Pair)

RE-Y(C)Y 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

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.
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 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, 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
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	0.4	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)		pF/m(Max.)	250				
Capacitance unbalance(1 kHz)		pF/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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(C)Y		
	No. of Pairs x2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm^2	Kg/km	Kg/km
RE-Y(C)Y 1P0.5	1x2x0.50	8.3	110
RE-Y(C)Y 1P0.75	1x2x0.75	8.7	119

Caledonian Cable Code	RE-Y(C)Y		
	No. of Pairs x2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm^2	Kg/km	Kg/km
RE-Y(C)Y 1P1.0	1x2x1.0	9.4	135
RE-Y(C)Y 1P1.3	1x2x1.3	9.7	140

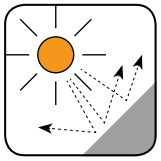
Note : Other conductor sizes & core configurations are available upon request.

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


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

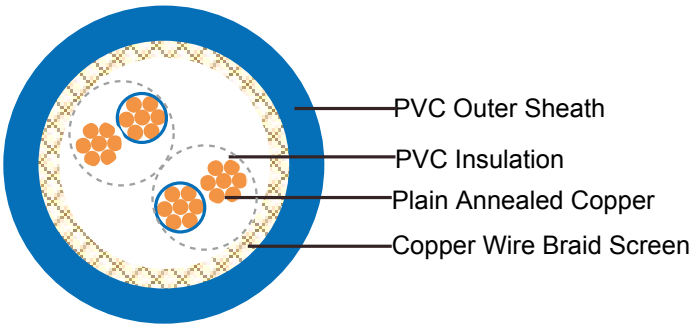

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PVC Insulated, PVC Sheathed, CWB Screened Instrumentation Cables (Multipair)

RE-Y(C)Y 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

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.
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 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, 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
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	0.4	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)		pF/m(Max.)	250				
Capacitance unbalance(1 kHz)		pF/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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(C)Y		
	No. of Pairs x2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm^2	Kg/km	Kg/km
0.5mm^2, Multipair			
RE-Y(C)Y 2P0.5	2x2x0.50	10.7	143
RE-Y(C)Y 3P0.5	3x2x0.50	11.1	159
RE-Y(C)Y 4P0.5	4x2x0.50	11.9	181
RE-Y(C)Y 6P0.5	6x2x0.50	13.6	230
RE-Y(C)Y 8P0.5	8x2x0.50	14.2	264
RE-Y(C)Y 12P0.5	12x2x0.50	16.4	343
RE-Y(C)Y 16P0.5	16x2x0.50	18.2	418
RE-Y(C)Y 20P0.5	20x2x0.50	19.7	487
RE-Y(C)Y 24P0.5	24x2x0.50	21.1	557
0.75mm^2, Multipair			
RE-Y(C)Y 2P0.75	2x2x0.75	11.4	160
RE-Y(C)Y 3P0.75	3x2x0.75	11.9	185
RE-Y(C)Y 4P0.75	4x2x0.75	12.7	214
RE-Y(C)Y 6P0.75	6x2x0.75	14.6	278
RE-Y(C)Y 8P0.75	8x2x0.75	15.4	324
RE-Y(C)Y 12P0.75	12x2x0.75	17.8	427
RE-Y(C)Y 16P0.75	16x2x0.75	19.8	526
RE-Y(C)Y 20P0.75	20x2x0.75	21.5	623
RE-Y(C)Y 24P0.75	24x2x0.75	23.1	714
1.0mm^2, Multipair			
RE-Y(C)Y 2P1.0	2x2x1.0	12.3	184
RE-Y(C)Y 3P1.0	3x2x1.0	12.8	214
RE-Y(C)Y 4P1.0	4x2x1.0	13.7	251
RE-Y(C)Y 6P1.0	6x2x1.0	15.6	326
RE-Y(C)Y 8P1.0	8x2x1.0	16.4	382
RE-Y(C)Y 12P1.0	12x2x1.0	19.0	511
RE-Y(C)Y 16P1.0	16x2x1.0	21.2	636
RE-Y(C)Y 20P1.0	20x2x1.0	23.5	775
RE-Y(C)Y 24P1.0	24x2x1.0	25.3	892

Caledonian Cable Code	RE-Y(C)Y		
	No. of Pairs x2xCross Section	Copper Weight	Approx. Weight
	No.x2xmm^2	Kg/km	Kg/km
1.3mm^2, Multipair			
RE-Y(C)Y 2P1.3	2x2x1.3	12.9	204
RE-Y(C)Y 3P1.3	3x2x1.3	13.5	242
RE-Y(C)Y 4P1.3	4x2x1.3	14.5	285
RE-Y(C)Y 6P1.3	6x2x1.3	16.7	375
RE-Y(C)Y 8P1.3	8x2x1.3	17.4	444
RE-Y(C)Y 12P1.3	12x2x1.3	20.2	599
RE-Y(C)Y 16P1.3	16x2x1.3	22.6	750
RE-Y(C)Y 20P1.3	20x2x1.3	25.1	916
RE-Y(C)Y 24P1.3	24x2x1.3	27.0	1064

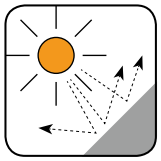
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

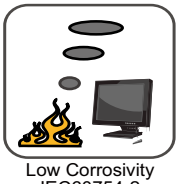
Standard


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


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

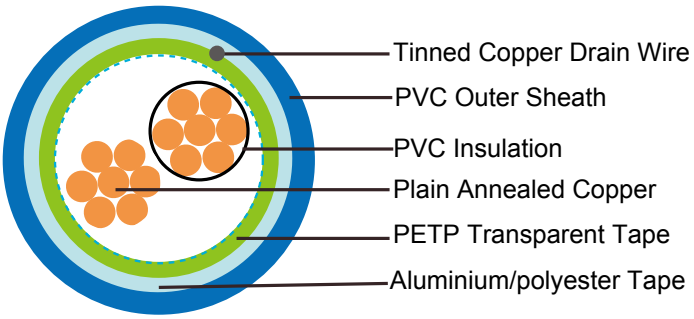

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

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

RE-Y(St)Y 90°C / 300V



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.

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STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

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.
Pairs: 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, 0.5mm².

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, 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): -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	0.4	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)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(St)Y				
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
RE-Y(St)Y 1P0.5	1x2x0.50	0.35	0.8	5.2	38
RE-Y(St)Y 1P0.75	1x2x0.75	0.38	0.8	5.6	49
RE-Y(St)Y 1P1.0	1x2x1.0	0.40	0.9	6.3	56
RE-Y(St)Y 1P1.3	1x2x1.3	0.45	0.9	6.8	65
RE-Y(St)Y 1P1.5	1x2x1.5	0.45	0.9	7.1	71

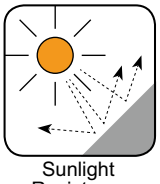
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

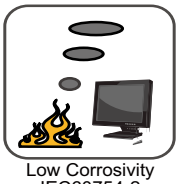
Standard


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


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

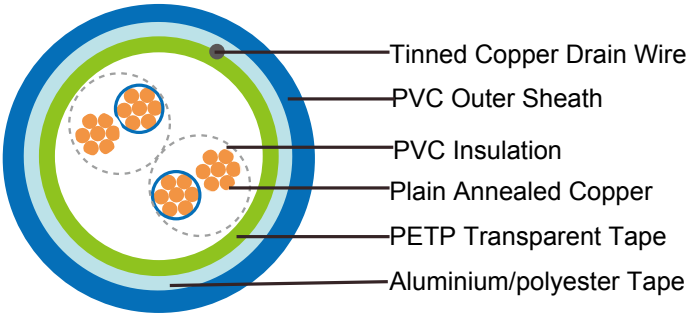

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PVC Insulated, PVC Sheathed & Overall Screened Instrumentation Cables (Multipair)

RE-Y(St)Y 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

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.
Pairs: 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, 0.5mm².

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, 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): -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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(St)Y				
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
0.5mm^2, Multipair					
RE-Y(St)Y 2P0.5	2x2x0.5	0.35	0.9	7.6	66
RE-Y(St)Y 4P0.5	4x2x0.5	0.35	0.9	8.8	98
RE-Y(St)Y 5P0.5	5x2x0.5	0.35	1.0	9.8	112
RE-Y(St)Y 6P0.5	6x2x0.5	0.35	1.0	10.6	133
RE-Y(St)Y 8P0.5	8x2x0.5	0.35	1.0	11.3	161
RE-Y(St)Y 10P0.5	10x2x0.5	0.35	1.1	12.9	200
RE-Y(St)Y 12P0.5	12x2x0.5	0.35	1.1	13.5	242
RE-Y(St)Y 16P0.5	16x2x0.5	0.35	1.1	15.2	288
RE-Y(St)Y 20P0.5	20x2x0.5	0.35	1.2	16.9	376
RE-Y(St)Y 24P0.5	24x2x0.5	0.35	1.2	18.3	426
0.75mm^2, Multipair					
RE-Y(St)Y 2P0.75	2x2x0.75	0.38	0.9	8.5	87
RE-Y(St)Y 4P0.75	4x2x0.75	0.38	1.0	10.0	122
RE-Y(St)Y 5P0.75	5x2x0.75	0.38	1.0	10.9	154
RE-Y(St)Y 6P0.75	6x2x0.75	0.38	1.0	11.8	174
RE-Y(St)Y 8P0.75	8x2x0.75	0.38	1.1	12.8	213
RE-Y(St)Y 10P0.75	10x2x0.75	0.38	1.1	14.5	266
RE-Y(St)Y 12P0.75	12x2x0.75	0.38	1.1	15.1	304
RE-Y(St)Y 16P0.75	16x2x0.75	0.38	1.2	17.3	398
RE-Y(St)Y 20P0.75	20x2x0.75	0.38	1.3	19.2	478
RE-Y(St)Y 24P0.75	24x2x0.75	0.38	1.3	20.8	559
1.0mm^2, Multipair					
RE-Y(St)Y 2P1.0	2x2x1.0	0.4	0.9	9.2	101
RE-Y(St)Y 4P1.0	4x2x1.0	0.4	1.0	10.9	157
RE-Y(St)Y 5P1.0	5x2x1.0	0.4	1.0	11.9	194
RE-Y(St)Y 6P1.0	6x2x1.0	0.4	1.0	13.0	223

Caledonian Cable Code	RE-Y(St)Y				
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
RE-Y(St)Y 8P1.0	8x2x1.0	0.4	1.1	14.0	272
RE-Y(St)Y 10P1.0	10x2x1.0	0.4	1.1	15.9	334
RE-Y(St)Y 12P1.0	12x2x1.0	0.4	1.2	16.8	390
RE-Y(St)Y 16P1.0	16x2x1.0	0.4	1.2	19.0	511
RE-Y(St)Y 20P1.0	20x2x1.0	0.4	1.3	21.1	617
RE-Y(St)Y 24P1.0	24x2x1.0	0.4	1.4	23.1	749
1.3mm^2, Multipair					
RE-Y(St)Y 2P1.3	2x2x1.3	0.45	1.0	10.4	124
RE-Y(St)Y 4P1.3	4x2x1.3	0.45	1.0	12.0	184
RE-Y(St)Y 5P1.3	5x2x1.3	0.45	1.1	13.4	226
RE-Y(St)Y 6P1.3	6x2x1.3	0.45	1.1	14.6	289
RE-Y(St)Y 8P1.3	8x2x1.3	0.45	1.2	15.7	337
RE-Y(St)Y 10P1.3	10x2x1.3	0.45	1.2	17.9	411
RE-Y(St)Y 12P1.3	12x2x1.3	0.45	1.3	18.9	495
RE-Y(St)Y 16P1.3	16x2x1.3	0.45	1.3	21.4	651
RE-Y(St)Y 20P1.3	20x2x1.3	0.45	1.4	23.8	772
RE-Y(St)Y 24P1.3	24x2x1.3	0.45	1.5	25.9	933
1.5mm^2, Multipair					
RE-Y(St)Y 2P1.5	2x2x1.5	0.45	1.0	10.8	139*
RE-Y(St)Y 4P1.5	4x2x1.5	0.45	1.1	12.7	214
RE-Y(St)Y 5P1.5	5x2x1.5	0.45	1.1	14.0	259
RE-Y(St)Y 6P1.5	6x2x1.5	0.45	1.2	15.2	305
RE-Y(St)Y 8P1.5	8x2x1.5	0.45	1.2	16.4	385
RE-Y(St)Y 10P1.5	10x2x1.5	0.45	1.3	18.8	460
RE-Y(St)Y 12P1.5	12x2x1.5	0.45	1.3	19.7	558
RE-Y(St)Y 16P1.5	16x2x1.5	0.45	1.4	22.5	725
RE-Y(St)Y 20P1.5	20x2x1.5	0.45	1.5	25.0	881
RE-Y(St)Y 24P1.5	24x2x1.5	0.45	1.5	27.1	147

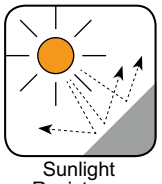
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

Standard

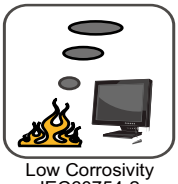
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

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



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

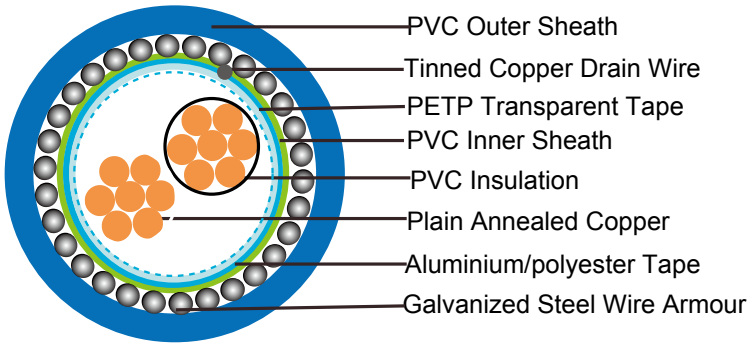
Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Oil Resistance
ICEA S-73-532

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

RE-Y(St)YSWAY 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

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.
Pairs: 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, 0.5mm².
Inner Sheath: Thermoplastic PVC compound as per EN 50290-2-22.
Amouring: Galvanized steel wire armour.
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, 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): -5°C – +50°C
Minimum Bending Radius: 6 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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(St)YSWAY							
	No. of Pairs x2xCross 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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
RE-Y(St)YSWAY 1P0.5	1x2x0.50	0.35	0.8	5.2	0.9	1.3	9.6	179
RE-Y(St)YSWAY 1P0.75	1x2x0.75	0.38	0.8	5.6	0.9	1.3	10.0	199
RE-Y(St)YSWAY 1P1.0	1x2x1.0	0.40	0.9	6.3	0.9	1.3	10.7	220
RE-Y(St)YSWAY 1P1.3	1x2x1.3	0.45	0.9	6.8	0.9	1.3	11.2	241
RE-Y(St)YSWAY 1P1.5	1x2x1.5	0.45	0.9	7.1	0.9	1.3	11.5	259

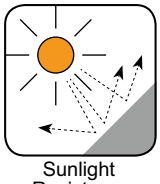
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

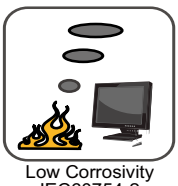
Standard


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


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

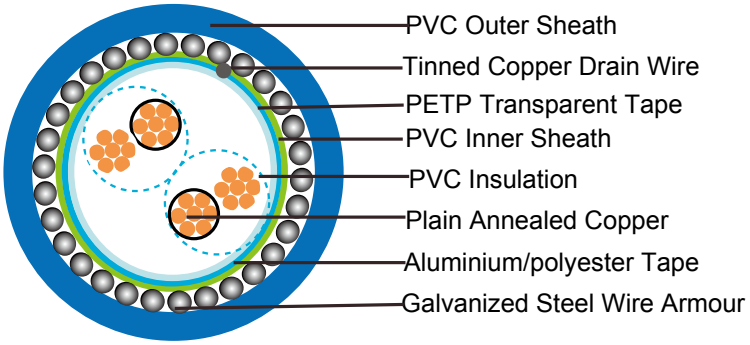

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

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

RE-Y(St)YSWAY 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductor: Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation: PVC compound as per EN 50290-2-21.
Pairs: 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, 0.5mm².
Inner Sheath: Thermoplastic PVC compound as per EN 50290-2-22.
Amouring: Galvanized steel wire armour.
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, 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): -5°C – +50°C
Minimum Bending Radius: 10 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	18.5	14.2	12.3
Insulation resistance (20°C)		MΩ.km(Min.)	5000				
Mutual Capacitance (1 kHz)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(St)YSWAY							
	No. of Pairs x2xCross 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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multipair								
RE-Y(St)YSWAY 2P0.5	2x2x0.5	0.35	0.9	7.6	0.9	1.3	12.0	269
RE-Y(St)YSWAY 4P0.5	4x2x0.5	0.35	0.9	8.8	0.9	1.4	13.4	325
RE-Y(St)YSWAY 5P0.5	5x2x0.5	0.35	1.0	9.8	0.9	1.4	14.4	375
RE-Y(St)YSWAY 6P0.5	6x2x0.5	0.35	1.0	10.6	0.9	1.4	15.2	423
RE-Y(St)YSWAY 8P0.5	8x2x0.5	0.35	1.0	11.3	0.9	1.4	15.9	473
RE-Y(St)YSWAY 10P0.5	10x2x0.5	0.35	1.1	12.9	0.9	1.5	17.7	521
RE-Y(St)YSWAY 12P0.5	12x2x0.5	0.35	1.1	13.5	0.9	1.5	18.3	592
RE-Y(St)YSWAY 16P0.5	16x2x0.5	0.35	1.1	15.2	0.9	1.5	20.0	823
RE-Y(St)YSWAY 20P0.5	20x2x0.5	0.35	1.2	16.9	0.9	1.6	21.9	920
RE-Y(St)YSWAY 24P0.5	24x2x0.5	0.35	1.2	18.3	1.25	1.6	24.0	1028
0.75mm^2, Multipair								
RE-Y(St)YSWAY 2P0.75	2x2x0.75	0.38	0.9	8.5	0.9	1.4	13.1	308
RE-Y(St)YSWAY 4P0.75	4x2x0.75	0.38	1.0	10.0	0.9	1.4	14.6	371
RE-Y(St)YSWAY 5P0.75	5x2x0.75	0.38	1.0	10.9	0.9	1.4	15.5	436
RE-Y(St)YSWAY 6P0.75	6x2x0.75	0.38	1.0	11.8	0.9	1.4	16.4	495
RE-Y(St)YSWAY 8P0.75	8x2x0.75	0.38	1.1	12.8	0.9	1.5	17.6	533
RE-Y(St)YSWAY 10P0.75	10x2x0.75	0.38	1.1	14.5	0.9	1.5	19.3	637
RE-Y(St)YSWAY 12P0.75	12x2x0.75	0.38	1.1	15.1	0.9	1.5	19.9	825
RE-Y(St)YSWAY 16P0.75	16x2x0.75	0.38	1.2	17.3	0.9	1.6	22.3	965
RE-Y(St)YSWAY 20P0.75	20x2x0.75	0.38	1.3	19.2	1.25	1.6	24.9	1116
RE-Y(St)YSWAY 24P0.75	24x2x0.75	0.38	1.3	20.8	1.25	1.6	26.7	1257
1.0mm^2, Multipair								
RE-Y(St)YSWAY 2P1.0	2x2x1.0	0.4	0.9	9.2	0.9	1.4	13.8	336
RE-Y(St)YSWAY 4P1.0	4x2x1.0	0.4	1.0	10.9	0.9	1.4	15.5	436
RE-Y(St)YSWAY 5P1.0	5x2x1.0	0.4	1.0	11.9	0.9	1.4	16.5	494
RE-Y(St)YSWAY 6P1.0	6x2x1.0	0.4	1.0	13.0	0.9	1.4	17.6	550

Caledonian Cable Code	RE-Y(St)YSWAY							
	No. of Pairs x2xCross 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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
RE-Y(St)YSWAY 8P1.0	8x2x1.0	0.4	1.1	14.0	0.9	1.5	18.8	633
RE-Y(St)YSWAY 10P1.0	10x2x1.0	0.4	1.1	15.9	0.9	1.5	20.7	859
RE-Y(St)YSWAY 12P1.0	12x2x1.0	0.4	1.2	16.8	0.9	1.5	21.6	972
RE-Y(St)YSWAY 16P1.0	16x2x1.0	0.4	1.2	19.0	1.25	1.6	24.7	1171
RE-Y(St)YSWAY 20P1.0	20x2x1.0	0.4	1.3	21.1	1.25	1.7	27.0	1316
RE-Y(St)YSWAY 24P1.0	24x2x1.0	0.4	1.4	23.1	1.25	1.7	29.0	1520
1.3mm^2, Multipair								
RE-Y(St)YSWAY 2P1.3	2x2x1.3	0.45	1.0	10.4	0.9	1.4	15.0	382
RE-Y(St)YSWAY 4P1.3	4x2x1.3	0.45	1.0	12.0	0.9	1.4	16.6	510
RE-Y(St)YSWAY 5P1.3	5x2x1.3	0.45	1.1	13.4	0.9	1.5	18.2	595
RE-Y(St)YSWAY 6P1.3	6x2x1.3	0.45	1.1	14.6	0.9	1.5	19.4	657
RE-Y(St)YSWAY 8P1.3	8x2x1.3	0.45	1.2	15.7	0.9	1.5	20.5	869
RE-Y(St)YSWAY 10P1.3	10x2x1.3	0.45	1.2	17.9	0.9	1.6	23.6	1011
RE-Y(St)YSWAY 12P1.3	12x2x1.3	0.45	1.3	18.9	1.25	1.6	24.6	1110
RE-Y(St)YSWAY 16P1.3	16x2x1.3	0.45	1.3	21.4	1.25	1.7	27.3	1361
RE-Y(St)YSWAY 20P1.3	20x2x1.3	0.45	1.4	23.8	1.25	1.8	29.9	1599
RE-Y(St)YSWAY 24P1.3	24x2x1.3	0.45	1.5	25.9	1.25	1.8	32.0	1960
1.5mm^2, Multipair								
RE-Y(St)YSWAY 2P1.5	2x2x1.5	0.45	1.0	10.8	0.9	1.4	15.4	419
RE-Y(St)YSWAY 4P1.5	4x2x1.5	0.45	1.1	12.7	0.9	1.5	17.5	544
RE-Y(St)YSWAY 5P1.5	5x2x1.5	0.45	1.1	14.0	0.9	1.5	18.8	627
RE-Y(St)YSWAY 6P1.5	6x2x1.5	0.45	1.2	15.2	0.9	1.5	20.0	833
RE-Y(St)YSWAY 8P1.5	8x2x1.5	0.45	1.2	16.4	0.9	1.6	21.4	943
RE-Y(St)YSWAY 10P1.5	10x2x1.5	0.45	1.3	18.8	1.25	1.6	24.5	1095
RE-Y(St)YSWAY 12P1.5	12x2x1.5	0.45	1.3	19.7	1.25	1.7	25.6	1197
RE-Y(St)YSWAY 16P1.5	16x2x1.5	0.45	1.4	22.5	1.25	1.7	28.4	1511
RE-Y(St)YSWAY 20P1.5	20x2x1.5	0.45	1.5	25.0	1.25	1.8	31.1	1968
RE-Y(St)YSWAY 24P1.5	24x2x1.5	0.45	1.5	27.1	1.25	1.8	33.2	2247

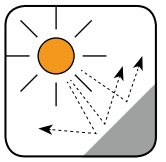
Note : Other conductor sizes & core configurations are available upon request.

Rated Voltage

Standard

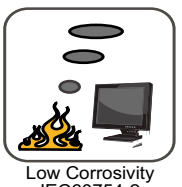
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

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



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

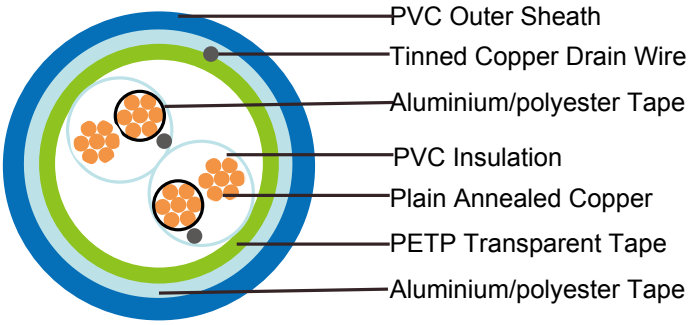
Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Oil Resistance
ICEA S-73-532

PVC Insulated, PVC Sheathed, Individual and Overall Screened Instrumentation Cables (Multipair)

RE-Y(St)Y PiMF 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

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.
Pairs: Two insulated conductors uniformly twisted together with a lay not exceeding 100mm.
Individual Screen: Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm².
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, 0.5mm².
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, 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): -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	0.4	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)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(St)Y PiMF				
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
0.5mm^2, Multipair					
RE-Y(St)Y PiMF 2P0.5	2x2x0.5	0.35	0.9	8.7	85
RE-Y(St)Y PiMF 4P0.5	4x2x0.5	0.35	1.0	10.2	120
RE-Y(St)Y PiMF 5P0.5	5x2x0.5	0.35	1.0	11.2	145
RE-Y(St)Y PiMF 6P0.5	6x2x0.5	0.35	1.0	12.1	170
RE-Y(St)Y PiMF 8P0.5	8x2x0.5	0.35	1.1	13.1	214
RE-Y(St)Y PiMF 10P0.5	10x2x0.5	0.35	1.2	15.1	265
RE-Y(St)Y PiMF 12P0.5	12x2x0.5	0.35	1.2	15.7	286
RE-Y(St)Y PiMF 16P0.5	16x2x0.5	0.35	1.2	17.8	380
RE-Y(St)Y PiMF 20P0.5	20x2x0.5	0.35	1.3	19.7	475
RE-Y(St)Y PiMF 24P0.5	24x2x0.5	0.35	1.4	21.5	561
0.75mm^2, Multipair					
RE-Y(St)Y PiMF 2P0.75	2x2x0.75	0.38	1.0	9.7	101
RE-Y(St)Y PiMF 4P0.75	4x2x0.75	0.38	1.0	11.2	159
RE-Y(St)Y PiMF 5P0.75	5x2x0.75	0.38	1.1	12.5	183
RE-Y(St)Y PiMF 6P0.75	6x2x0.75	0.38	1.1	13.6	215
RE-Y(St)Y PiMF 8P0.75	8x2x0.75	0.38	1.1	14.4	272
RE-Y(St)Y PiMF 10P0.75	10x2x0.75	0.38	1.2	16.6	333
RE-Y(St)Y PiMF 12P0.75	12x2x0.75	0.38	1.2	17.4	383
RE-Y(St)Y PiMF 16P0.75	16x2x0.75	0.38	1.3	19.8	492
RE-Y(St)Y PiMF 20P0.75	20x2x0.75	0.38	1.4	22.0	603
RE-Y(St)Y PiMF 24P0.75	24x2x0.75	0.38	1.5	24.0	704
1.0mm^2, Multipair					
RE-Y(St)Y PiMF 2P1.0	2x2x1.0	0.4	1.0	10.4	112
RE-Y(St)Y PiMF 4P1.0	4x2x1.0	0.4	1.0	12.1	179
RE-Y(St)Y PiMF 5P1.0	5x2x1.0	0.4	1.1	13.5	220
RE-Y(St)Y PiMF 6P1.0	6x2x1.0	0.4	1.1	14.7	256

Caledonian Cable Code	RE-Y(St)Y PiMF				
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm^2	mm	mm	mm	kg/km
RE-Y(St)Y PiMF 8P1.0	8x2x1.0	0.4	1.2	15.8	323
RE-Y(St)Y PiMF 10P1.0	10x2x1.0	0.4	1.2	18.0	401
RE-Y(St)Y PiMF 12P1.0	12x2x1.0	0.4	1.3	19.0	454
RE-Y(St)Y PiMF 16P1.0	16x2x1.0	0.4	1.3	21.5	601
RE-Y(St)Y PiMF 20P1.0	20x2x1.0	0.4	1.4	23.9	719
RE-Y(St)Y PiMF 24P1.0	24x2x1.0	0.4	1.5	26.1	884
1.3mm^2, Multipair					
RE-Y(St)Y PiMF 2P1.3	2x2x1.3	0.45	1.0	11.4	153
RE-Y(St)Y PiMF 4P1.3	4x2x1.3	0.45	1.1	13.4	208
RE-Y(St)Y PiMF 5P1.3	5x2x1.3	0.45	1.1	14.8	263
RE-Y(St)Y PiMF 6P1.3	6x2x1.3	0.45	1.2	16.3	318
RE-Y(St)Y PiMF 8P1.3	8x2x1.3	0.45	1.3	17.6	406
RE-Y(St)Y PiMF 10P1.3	10x2x1.3	0.45	1.3	20.0	501
RE-Y(St)Y PiMF 12P1.3	12x2x1.3	0.45	1.4	21.1	552
RE-Y(St)Y PiMF 16P1.3	16x2x1.3	0.45	1.5	24.1	728
RE-Y(St)Y PiMF 20P1.3	20x2x1.3	0.45	1.6	26.8	892
RE-Y(St)Y PiMF 24P1.3	24x2x1.3	0.45	1.7	29.2	1067
1.5mm^2, Multipair					
RE-Y(St)Y PiMF 2P1.5	2x2x1.5	0.45	1.0	11.8	164
RE-Y(St)Y PiMF 4P1.5	4x2x1.5	0.45	1.1	13.9	235
RE-Y(St)Y PiMF 5P1.5	5x2x1.5	0.45	1.2	15.5	289
RE-Y(St)Y PiMF 6P1.5	6x2x1.5	0.45	1.2	16.9	366
RE-Y(St)Y PiMF 8P1.5	8x2x1.5	0.45	1.3	18.2	446
RE-Y(St)Y PiMF 10P1.5	10x2x1.5	0.45	1.4	21.0	565
RE-Y(St)Y PiMF 12P1.5	12x2x1.5	0.45	1.4	21.9	637
RE-Y(St)Y PiMF 16P1.5	16x2x1.5	0.45	1.5	25.1	828
RE-Y(St)Y PiMF 20P1.5	20x2x1.5	0.45	1.6	27.8	1024
RE-Y(St)Y PiMF 24P1.5	24x2x1.5	0.45	1.7	30.4	1219

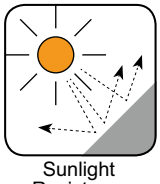
Note : Other conductor sizes & core configurations are available upon request.

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



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

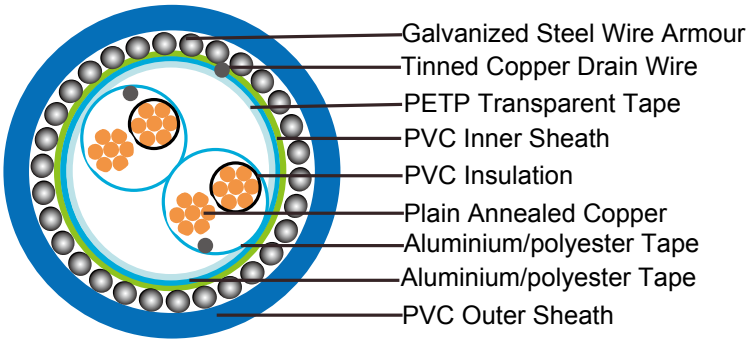
Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1

Oil Resistance
ICEA S-73-532

PVC Insulated, PVC Sheathed, Individual and Overall Screened & Armoured Instrumentation Cables (Multipair)

RE-Y(St)YSWAY PiMF 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations; suitable for direct burial.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

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.
Pairs: Two insulated conductors uniformly twisted together with a lay not exceeding 100mm.
Individual Screen: Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm².
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, 0.5mm².
Inner Sheath: PVC compound as per EN 50290-2-22.
Amouring: Galvanized steel wire armour.
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, 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
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	0.4	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)		pF/m(Max.)	250				
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				

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-Y(St)YSWAY PiMF							
	No. of Pairs x2xCross 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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
0.5mm^2, Multipair								
RE-Y(St)YSWAY PiMF 2P0.5	2x2x0.5	0.35	0.9	8.7	0.9	1.4	13.3	311
RE-Y(St)YSWAY PiMF 4P0.5	4x2x0.5	0.35	1.0	10.2	0.9	1.4	14.8	373
RE-Y(St)YSWAY PiMF 5P0.5	5x2x0.5	0.35	1.0	11.2	0.9	1.4	15.8	451
RE-Y(St)YSWAY PiMF 6P0.5	6x2x0.5	0.35	1.0	12.1	0.9	1.6	16.9	483
RE-Y(St)YSWAY PiMF 8P0.5	8x2x0.5	0.35	1.1	13.1	0.9	1.6	17.9	537
RE-Y(St)YSWAY PiMF 10P0.5	10x2x0.5	0.35	1.2	15.1	0.9	1.5	19.9	781
RE-Y(St)YSWAY PiMF 12P0.5	12x2x0.5	0.35	1.2	15.7	0.9	1.5	20.5	804
RE-Y(St)YSWAY PiMF 16P0.5	16x2x0.5	0.35	1.2	17.8	1.25	1.6	23.5	968
RE-Y(St)YSWAY PiMF 20P0.5	20x2x0.5	0.35	1.3	19.7	1.25	1.7	25.6	1143
RE-Y(St)YSWAY PiMF 24P0.5	24x2x0.5	0.35	1.4	21.5	1.25	1.7	27.4	1264
0.75mm^2, Multipair								
RE-Y(St)YSWAY PiMF 2P0.75	2x2x0.75	0.38	1.0	9.7	0.9	1.4	14.3	342
RE-Y(St)YSWAY PiMF 4P0.75	4x2x0.75	0.38	1.0	11.2	0.9	1.4	15.8	439
RE-Y(St)YSWAY PiMF 5P0.75	5x2x0.75	0.38	1.1	12.5	0.9	1.5	17.3	496
RE-Y(St)YSWAY PiMF 6P0.75	6x2x0.75	0.38	1.1	13.6	0.9	1.5	18.4	578
RE-Y(St)YSWAY PiMF 8P0.75	8x2x0.75	0.38	1.1	14.4	0.9	1.5	19.2	664
RE-Y(St)YSWAY PiMF 10P0.75	10x2x0.75	0.38	1.2	16.6	1.25	1.6	22.3	876
RE-Y(St)YSWAY PiMF 12P0.75	12x2x0.75	0.38	1.2	17.4	1.25	1.6	23.1	942
RE-Y(St)YSWAY PiMF 16P0.75	16x2x0.75	0.38	1.3	19.8	1.25	1.7	25.7	1130
RE-Y(St)YSWAY PiMF 20P0.75	20x2x0.75	0.38	1.4	22.0	1.25	1.7	27.9	1325
RE-Y(St)YSWAY PiMF 24P0.75	24x2x0.75	0.38	1.5	24.0	1.25	1.8	30.1	1490
1.0mm^2, Multipair								
RE-Y(St)YSWAY PiMF 2P1.0	2x2x1.0	0.4	1.0	10.4	0.9	1.4	15.0	382
RE-Y(St)YSWAY PiMF 4P1.0	4x2x1.0	0.4	1.0	12.1	0.9	1.4	16.7	487

Caledonian Cable Code	RE-Y(St)YSWAY PiMF							
	No. of Pairs x2xCross 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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
RE-Y(St)YSWAY PiMF 5P1.0	5x2x1.0	0.4	1.1	13.5	0.9	1.5	18.3	566
RE-Y(St)YSWAY PiMF 6P1.0	6x2x1.0	0.4	1.1	14.7	0.9	1.5	19.5	641
RE-Y(St)YSWAY PiMF 8P1.0	8x2x1.0	0.4	1.2	15.8	0.9	1.5	20.6	718
RE-Y(St)YSWAY PiMF 10P1.0	10x2x1.0	0.4	1.2	18.0	1.25	1.6	23.7	994
RE-Y(St)YSWAY PiMF 12P1.0	12x2x1.0	0.4	1.3	19.0	1.25	1.7	24.7	1083
RE-Y(St)YSWAY PiMF 16P1.0	16x2x1.0	0.4	1.3	21.5	1.25	1.7	27.4	1361
RE-Y(St)YSWAY PiMF 20P1.0	20x2x1.0	0.4	1.4	23.9	1.25	1.7	29.8	1510
RE-Y(St)YSWAY PiMF 24P1.0	24x2x1.0	0.4	1.5	26.1	1.25	1.8	32.2	1902
1.3mm^2, Multipair								
RE-Y(St)YSWAY PiMF 2P1.3	2x2x1.3	0.45	1.0	11.4	0.9	1.4	16.0	452
RE-Y(St)YSWAY PiMF 4P1.3	4x2x1.3	0.45	1.1	13.4	0.9	1.5	18.2	576
RE-Y(St)YSWAY PiMF 5P1.3	5x2x1.3	0.45	1.1	14.8	0.9	1.5	19.6	647
RE-Y(St)YSWAY PiMF 6P1.3	6x2x1.3	0.45	1.2	16.3	0.9	1.6	21.3	857
RE-Y(St)YSWAY PiMF 8P1.3	8x2x1.3	0.45	1.3	17.6	1.25	1.6	23.3	980
RE-Y(St)YSWAY PiMF 10P1.3	10x2x1.3	0.45	1.3	20.0	1.25	1.7	25.9	1195
RE-Y(St)YSWAY PiMF 12P1.3	12x2x1.3	0.45	1.4	21.1	1.25	1.7	27.0	1256
RE-Y(St)YSWAY PiMF 16P1.3	16x2x1.3	0.45	1.5	24.1	1.25	1.8	30.2	1562
RE-Y(St)YSWAY PiMF 20P1.3	20x2x1.3	0.45	1.6	26.8	1.25	1.9	33.1	1958
RE-Y(St)YSWAY PiMF 24P1.3	24x2x1.3	0.45	1.7	29.2	1.25	2.0	36.4	2251
1.5mm^2, Multipair								
RE-Y(St)YSWAY PiMF 2P1.5	2x2x1.5	0.45	1.0	11.8	0.9	1.5	16.6	475
RE-Y(St)YSWAY PiMF 4P1.5	4x2x1.5	0.45	1.1	13.9	0.9	1.5	18.7	599
RE-Y(St)YSWAY PiMF 5P1.5	5x2x1.5	0.45	1.2	15.5	0.9	1.5	20.3	818
RE-Y(St)YSWAY PiMF 6P1.5	6x2x1.5	0.45	1.2	16.9	1.25	1.6	22.6	940
RE-Y(St)YSWAY PiMF 8P1.5	8x2x1.5	0.45	1.3	18.2	1.25	1.7	24.1	1037
RE-Y(St)YSWAY PiMF 10P1.5	10x2x1.5	0.45	1.4	21.0	1.25	1.7	26.9	1273
RE-Y(St)YSWAY PiMF 12P1.5	12x2x1.5	0.45	1.4	21.9	1.25	1.7	27.8	1353
RE-Y(St)YSWAY PiMF 16P1.5	16x2x1.5	0.45	1.5	25.1	1.25	1.8	31.2	1932

Caledonian Cable Code	RE-Y(St)YSWAY PiMF							
	No. of Pairs x2xCross 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.x2xmm^2	mm^2	mm	mm	mm	mm	mm	kg/km
RE-Y(St)YSWAY PiMF 20P1.5	20x2x1.5	0.45	1.6	27.8	1.25	1.9	34.8	2224
RE-Y(St)YSWAY PiMF 24P1.5	24x2x1.5	0.45	1.7	30.4	1.25	2.0	37.6	2541

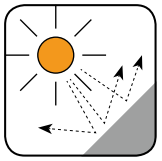
Note : Other conductor sizes & core configurations are available upon request.

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


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

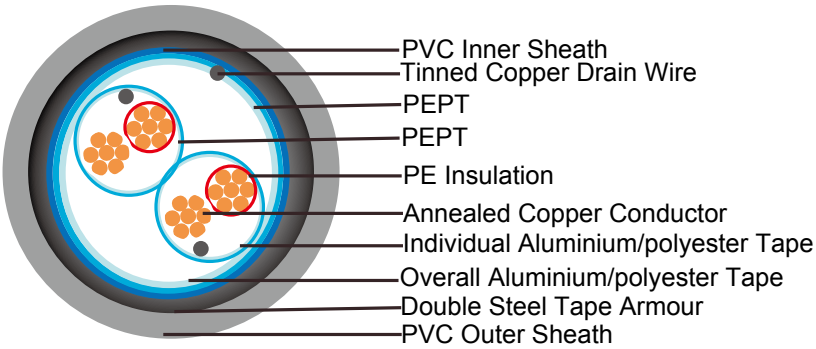

Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073

Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

PVC Insulated, PVC Sheathed, Individual and Overall Screened & DOUBLE STEEL Tape Armoured Instrumentation Cables (Multipair)

RE-2Y(St)YDSTAY PiMF 90°C / 300V



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 outerdoor installation, on racks, trays, in conduits, in dry and wet locations.

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2*

Note: Asterisk * denotes superseded standard.

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.
Pairs: Two insulated conductors uniformly twisted together with a lay not exceeding 100mm.
Binder tape: Polyester (PEPT) Tape.
Individual Screen: Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm², covered with extruded PVC.
Binder tape: Polyester (PEPT) Tape.

Overall Screen: Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm².
Inner Sheath: PVC compound as per EN 50290-2-22.
Amouring: Double steel tape armour.
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: Red / White.
Outer Sheath: Gray.

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: 10 X Overall Diameter
Sunlight Resistance: UL 1581 section 1200
Oil Resistance: ASTM No: 2 (7 HRS 90°C)

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.)					
	Individual conductors	1G				
	Individual screens	1M				
Mutual Capacitance (1 kHz)	pF/m(Max.)	250				
Inductance	mH/km (Max.)	1				
L / R (ratio) (max.)	µH/Ω	25	25	25	40	40
Test Voltage	V (1min)					
	AC	2000				
	DC	3000				

CONSTRUCTION PARAMETERS

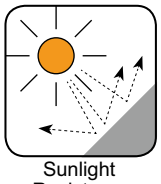
Caledonian Cable Code	RE-Y(St)YDSTAY PiMF								
	No. of Pairs x2x Cross Section	Nominal Insulation Thick -ness	Nominal Inner Sheath Thick -ness	Nominal Overall Diameter Over Inner Sheath	Nominal Armour Steel Tape Thick -ness	Nominal Overall Diameter Over Armour	Nominal Outer Sheath Thick -ness	Nominal Overall Diameter	Approx. Weight
	No.x2 xmm^2	mm^2	mm	mm	mm	mm	mm	mm	kg/km
RE-Y(St)YDSTAY PiMF 2P1.5	2x2x1.5	0.6	1.2	14.0	0.2	14.8	1.5	17.8	390

Rated Voltage

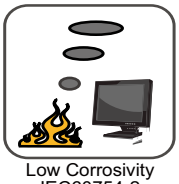
Standard


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


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

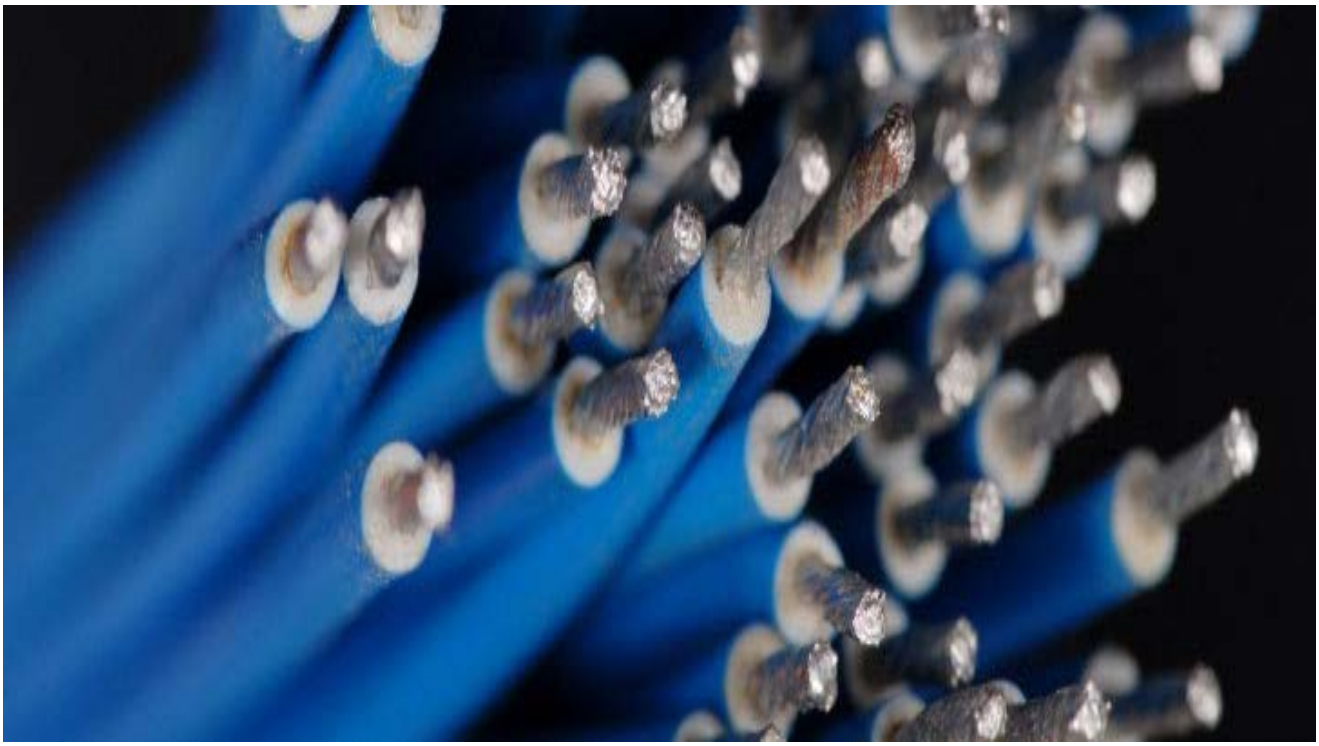
Halogen Free
IEC60754-1
EN50267-2-1


Oil Resistance
ICEA S-73-532

Type Codes For Fire Retardant Instrumentation Cables

RE-2X(St)YSWAY

Outer Sheath
Y: PVC
Armour
SWA: Steel Wire Armour
DSTA: Double Steel Tape Armour
Inner Sheath
Y: PVC
Screen
St: Aluminium/polyester Tape
CWB: Copper Wire Braid
Insulation
2X: XLPE
2Y: PE
Y: PVC



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