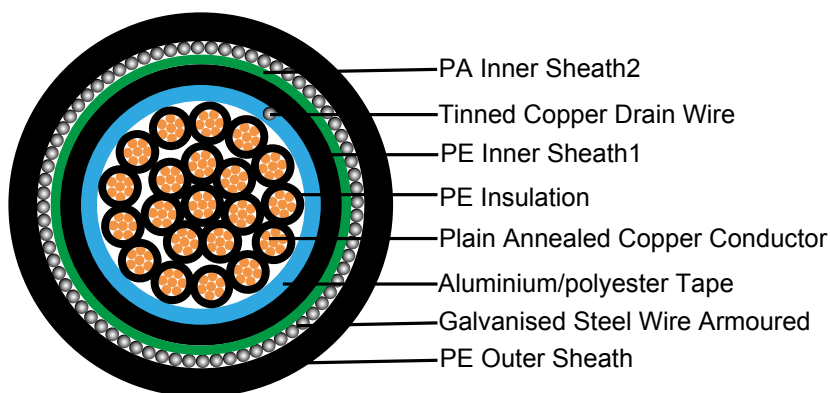




PE Insulated, PE and PA Inner Sheathed, Overall Screened & Armoured Instrumentation Cables (Multicore)

RE-2Y(St)2Y4YSWA2Y 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 outdoor installation, on racks, trays, in conduits, in dry and wet locations; not for direct burial.

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

STANDARDS

Basic design to EN 50288-7

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 tinned copper drain wire, 0.5mm²

Inner Sheath1: PE.

Inner Sheath2: PA.

Armouring: Galvanised steel wire

Outer Sheath: PE compound as per EN 50290-2-23.

UV resistance, anti rodent and anti termite properties.

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

ELECTRICAL PROPERTIES

Conductor Area Size	mm ²	2.5
Insulation thickness (nominal)	mm	0.7
Conductor resistance (20°C)	Ω/km	7.4
Insulation resistance (20°C)	MΩ.km(Min.)	5000
Mutual Capacitance (1 kHz)	pF/m(Max.)	115
Capacitance unbalance(1 kHz)	pF/500 m (Max.)	500
Inductance	mH/km(Max.)	1
L / R (ratio) (max.)	μH/Ω	40
Operating voltage	V	500
Test Voltage U _{rms}	Core to Core	V
	Core to Screen	V
		2000
		2000

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-2Y(St)2Y4YSWA2Y							
	No. of Core x1xCross Section	Nominal Insulation Thick- ness	Nominal Inner Sheath1 Thick- ness	Nominal Inner Sheath2 Thick- ness	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)2Y4YSWA2Y 21C2.5	21x2.5	0.7	1.3	0.3	1.25	1.7	29.0	1500

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