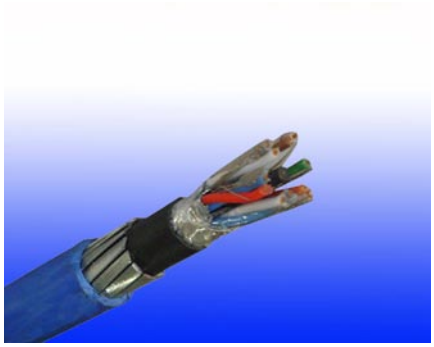
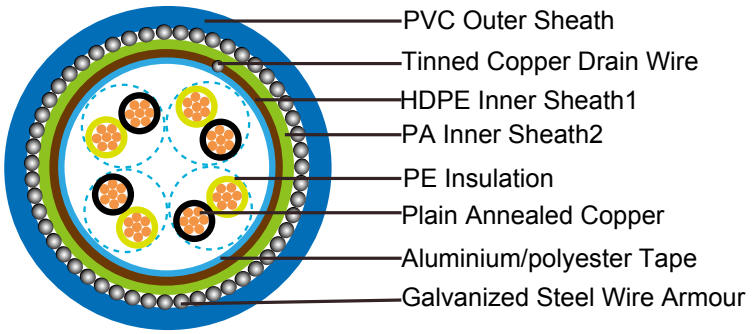
PE Insulated, PVC Sheathed, Overall Screened & Armoured Instrumentation Cables (Multipair)

RE-2Y(St)2Y4YSWAY CU/PE/OS/HDPE/PA/SWA/PVC 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; not for direct buiral.

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

STANDARDS

Basic design to EN 50288-7

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
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 Sheath1: HDPE.
Inner Sheath2: PA.
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

ELECTRICAL PROPERTIES

Conductor Area Size		mm^2	1.0
DC Conductor resistance (20°C)		Ω/km(max.)	18.1
Insulation resistance (20°C)		MΩ.km(Min.)	1000
Mutual Capacitance (1 kHz)		pF/m(Max.)	150
L / R (ratio) (max.)		μH/Ω	25
Operating voltage Urms		V	500
Test Voltage	Core to Core	V	1500
	Core to Screen	V	1500

CONSTRUCTION PARAMETERS

Caledonian Cable Code	No. of Pairsx2 xCross Section	No./ Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Armour Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	$No.x2xmm^2$	No/mm	mm^2	mm	mm	mm	kg/km
RE-2Y(St)2Y4YSWAY 4P1.0	4x2x1.0	7/0.37					

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

Rated Voltage

Standard