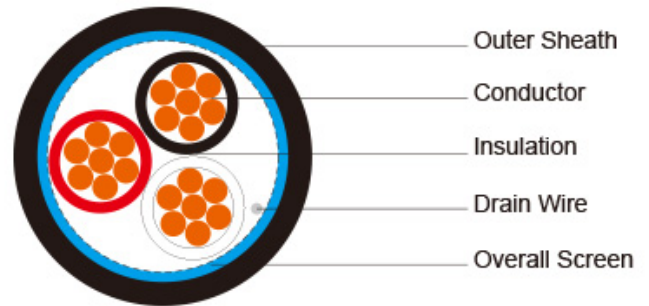


**PE Insulated, LSZH Sheathed & Overall Screened
Instrumentation Cables (Single Triple)**



RE-2Y(St)H 90°C / 300 V

STANDARDS

Basic design to EN50288-7

APPLICATION:

These cables are used for transmission of analogue and digital signals in instrument and control systems at chemistry and petrochemistry industry plants, power plants, natural gas and petroleum plants, etc...

These cables are used in the environments which have no corrosive gases are emitted in the event of fire. In case of fire, these cables inhibit the propagation of the flames whereby the development of smoke is extremely low. Instrumentation cables are not allowed for direct connection to a low impedance sources, e.g. public mains electricity supply.

With blue sheath it is suitable for intrinsically safe systems. These cables are not recommended for direct burial. They are for indoor and outdoor installation, in dry and wet locations; on racks, trays, in conduits.

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)

EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2; VDE 0482-332-1; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1*

Reduced Fire Propagation (Vertically-mounted bundled wires & cable test)

EN 60332-3-24 (cat. C); IEC 60332-3-24; BS EN 60332-3-24; VDE 0482-332-3; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); CEI 20-22/3-4; EN 50266-2-4*; DIN VDE 0482-266-2-4

Halogen Free

IEC 60754-1; EN 50267-2-1; DIN VDE 0482-267-2-1; CEI 20-37/2-1 ; BS 6425-1*

No Corrosive Gas Emission

IEC 60754-2; EN 50267-2-2; DIN VDE 0482-267-2-2; CEI 20-37/2-2 ; BS 6425-2*

Minimum Smoke Emission

IEC 61034-1&2; EN 61034 -1&2; DIN VDE 0482-1034-1&2; CEI 20-37/3-1&2; EN 50268-1&2*; BS 7622-1&2*

No Toxic gases

NES 02-713; NF C 20-454

Sunlight Resistance

UL 1581 section 1200

Oil Resistance

ICEA S-73-532**

Note: Asterisk * denotes superseded standard, **Test temperature +60°C, duration 4h. Retention: min 60% of tensile strength/min. 60% of elongation.

VOLTAGE RATING

300V

CABLE CONSTRUCTION

Conductor:	Annealed copper solid or plain copper stranded to IEC 60228 Class 2.
Insulation:	PE compound, EN 50290. 2-23.
Triple:	Three conductors twisted to form a triple
Lay-up:	Triples laid up in layers of optimum pitch
Separator:	Polyester tape
Overall Screen:	Aluminium/polyester tape with tinned copper drain wire, 0.5mm ²
Outer Sheath:	Thermoplastic LSZH compound type LTS3 as per BS 7655-6.1 (Thermosetting LSZH compound type SW2-SW4 as per BS 7655-2.6 can be offered.). UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

COLOUR CODE

Insulation:	Black / White / Red, continuously numbered on white core(1, 2..)for multitruples.
Outer Sheath:	Black or Blue for intrinsically safe systems

Physical AND THERMAL PROPERTIES

Temperature Range During Operation (Fixed State):	-30°C – +90°C
Temperature Range During Installation (Mobile State):	-5°C – +50°C
Minimum Bending Radius:	7.5 X Overall Diameter

CONSTRUCTION PARAMETERS

Cable Code	RE-2Y(St)H				
	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)H 1T0.5	1x3x0,50	0.35	0.8	5.4	49
RE-2Y(St)H 1T0.75	1x3x0,75	0.38	0.9	6.1	60
RE-2Y(St)H 1T1.0	1x3x1.0	0.4	0.9	6.6	71
RE-2Y(St)H 1T1.3	1x3x1,3	0.45	0.9	7.2	86
RE-2Y(St)H 1T1.5	1x3x1,5	0.45	0.9	7.5	97

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

Electrical PROPERTIES

Conductor Area Size	mm ²	0.5	0.75	1.0	1.3	1.5	
Insulation thickness (nominal)	mm	0.35	0.38	0.4	0.45	0.45	
Conductor resistance (20°C)	Ω/km	36.7	25.0	18.5	14.2	12.3	
Insulation resistance (20°C)	MΩ.km(Min.)	5000	5000	5000	5000	5000	
Mutual Capacitance (1 kHz)	pF/m(Max.)	115	115	115	115	115	
Capacitance unbalance(1 kHz)	pF/500 m (Max.)	0	0	0	0	0	
Inductance	mH/km(Max.)	1	1	1	1	1	
L / R (ratio) (max.)	μH/Ω	25	25	25	40	40	
Operating voltage	V	300					
Test Voltage Urms	Core to Core	V	1500	1500	1500	1500	1500
	Core to Screen	V	1500	1500	1500	1500	1500