

Caledonian

EN 50288-7 XLPE & PE Insulated LSZH Sheathed Instrumentation Cables www.caledonian-cables.com marketing@caledonian-cables.com

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

RE-2X(St)H 90°C / 300V 4T1.5





APPLICATIONS

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

STANDARDS

Basic design to EN 50288-7

FIRE PERFORMANCE

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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*	
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	
IEC 60754-1; EN 50267-2-1; DIN VDE 0482-267-2-1; CEI 20-37/2-1 ; BS 6425-1*	
IEC 60754-2; EN 50267-2-2; DIN VDE 0482-267-2-2; CEI 20-37/2-2 ; BS 6425-2*	
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*	
NES 02-713; NF C 20-454	
UL 1581 section 1200	
ICEA S-73-532	



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VOLTAGE RATING

300V

CABLE CONSTRUCTION

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

Insulation: Extruded cross-linked XLPE compound, 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, 0.5mm².

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 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

Electrical Properties

Conductor Area Size: 1.5 mm²

Insulation Thickness (Nominal) :0.45 mm Conductor Resistance (20°C):12.3 Ω /km

Insulation Resistance (20°C):5000 MΩ.km(Min.) Mutual Capacitance (1 kHz):102 pF/m(Max.)

Inductance:1 mH/km(Max.) L / R (ratio) (max.):40 μ H/ Ω Operating Voltage:300 V

Test Voltage Urms(Core to Core):1500 V
Test Voltage Urms(Core to Screen):1500 V

DIMENSION AND PARAMETERS

Caledonian Cable Code	No. of Triples x 3 x Cross Section	Nominal Insulation Thickness	Nominal Sheath Thickness
	No. × 3 × mm ²	mm	mm
RE-2X(St)H 4T1.5	4x3x1.5	0.45	1.1



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Rated voltage



EN 50288-7











Low Toxicity NES 02-713/NF C 20-45

