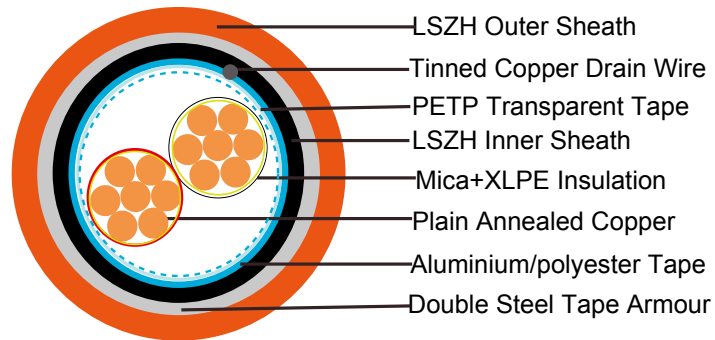
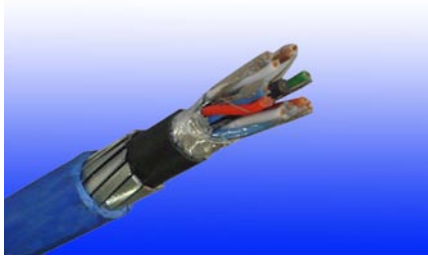




Mica+XLPE Insulated, LSZH Sheathed & Overall Screened, Armoured Instrumentation Cables (Single Pair)

RE-m2X(St)HSTAH 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 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

FIRE PERFORMANCE

Fire Resistant Circuit Integrity	IEC 60331-23; BS 6387 CWZ; DIN VDE 0472-814(FE180); CEI 20-36/2-1; SS299-1; NBN C 30-004 (cat. F3); NF C32-070-2.3(CR1)
System Circuit Integrity	DIN 4102-12, E30 depending on lay system
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

Note: Asterisk * denotes superseded standard.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, EN 50290. 2-29.

Fire Barrier: Mica tape.

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: LSZH compound.

Armouring: Double steel tape armour.

Outer Sheath: LSZH compound as per EN 50290-2-27. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

COLOUR CODE

Insulation: Red / White

Inner Sheath: Black

Outer Sheath: Orange

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

ELECTRICAL PROPERTIES

Conductor Area Size	mm ²	0.88
Insulation thickness (nominal)	mm	0.6
Conductor resistance (20°C)	Ω/km	21.4
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	25
Operating voltage Urms		V	300
Test Voltage	Core to Core	V	1500
	Core to Screen	V	1500

CONSTRUCTION PARAMETERS

Caledonian Cable Code	RE-m2X(St)HSTAH						
	No. of Pairs x2xCross Section	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Nominal Steel Tape Armour Thickness	Nominal Outer Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	No.x2xmm ²	mm ²	mm	mm	mm	mm	kg/km
RE-m2X(St)HSTAH 1P0.88	1x2x0.88	0.6	1.0	0.2	1.4	13.5	300

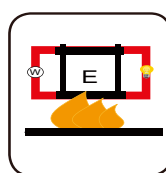
Note : Other conductor sizes & core configurations are available upon request.



Rated Voltage



Standard



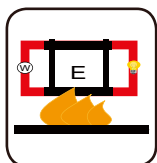
Circuit Integrity
IEC 60331/BS 6387
NF C32-070-2.3(CR1)



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



Functional Integrity
DIN 4102-12



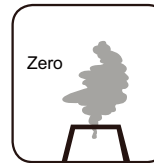
Low Toxicity
NES 02-713/NF C 20-454



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