



Date: 17 May 2010

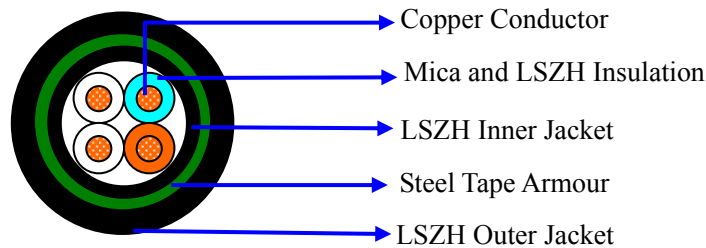
Part No.: PT80309

0.5MM CU/MICA/LSZH/LSZH/STA/LSZH CATEGORY 3 FIRE RESISTANT TELEPHONE CABLE

Application:

This cable is used for medium frequency data or telephone systems, suitable for indoor and outdoor installations.

Construction:



Conductor:	Plain Annealed Solid Copper to IEC 228 Class 1
Insulation:	Mica tape and LSZH insulation
Shape:	Circular
Inner Sheath:	LSZH
Armour:	Steel tape armour
Outer Sheath:	LSZH
Sheath color:	Black
Voltage Rating:	300/500V
Temperature Rating:	0 °C to 40 °C
Bending Radius:	6 x overall diameter

Marking: The cable is marked with white or other colors as follows:

- Caledonian Cables Co., Ltd
- Type and size of cable
- Manufacturing date
- Meter Marking

The meter mark is printed every meter with an accuracy of $\pm 0.5\%$.

Other printing is available according to customer request.



Caledonian

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Table 1. Technical Data

Number of Pair	Diameter of Conductor (mm)	Diameter of Cable (mm)
50	0.5	30.0

Electrical Properties:

Frequency: 1—16MHz

Characteristic Impedance: 100±15Ω

Nominal Velocity of Propagation: 65%

Maximum DC. Resistance: 9.38Ω/100m

Maximum DC Resistance Unbalance: 5%

Maximum Propagation Delay Skew: 30ns / 100m

Maximum Propagation Delay: 536 ns / 100m @ 100 MHz

Minimum Bending Radius: 10 × cable outer diameter

Voltage Rating: 60V rms

Maximum Pulling Load: 80 N

Working Temperature: (-20) °C — (+ 60) °C

Storage Temperature : (-5) °C — (+50) °C

Flame Retardancy: IEC 332-3A, IEC60331

Table 2. Transmission Parameters

	NEXT (db/100m)	ATTENUATION	SRL (db)
	Minimum Value/Typical Value/Standard Value	(db/100m)	Minimum Value/Typical Value/Standard Value
	≥	≤	≥
1	43.0/48.0/41.0	2.6	13.0/16.0/12.0
4	34.0/38.0/32.0	5.6	13.0/16.0/12.0
8	29.0/33.0/26.0	8.5	13.0/16.0/12.0
10	28.0/33.0/26.0	9.8	13.0/16.0/12.0
16	25.0/30.0/23.0	13.1	11.0/14.0/10.0

The data included in the present catalogue are merely indicative; Caledonian Cables Limited reserves to itself the right to change them as its own discretion in any time.