

RMC-50-LM-78-Z

PRODUCT DESCRIPTION

- The cable is used as a distributed antenna to provide communications in tunnels, subway, mines, large building complexes, and any other application in confined areas.
- Slots in the copper outer conductor allow a controlled portion of the internal RF energy to be radiated into the surrounding environment and can be designed individually.
- With the broadband capability of 75~1000MHz, this cable is used for both one-way and two-way communication systems, and a single radiating cable can handle multiple communication systems simultaneously.



CONSTRUCTION

Inner conductor	Smooth copper tube	Φ8.60±0.10mm
Insulation	Physically foamed PE	Φ22.50±0.25mm
Outer conductor	Overlapping copper foil with slots	
Jacket	Non-halogenated, fire retardant PE	Φ27.00±0.25mm

MECHANICAL PROPERTIES

Minimum bending radius	mm	300
Tensile force	N	2300

ELECTRICAL PROPERTIES

Impedance	Ω	50±2
Capacitance	pF/m	76
Propagation velocity	%	88
DC breakdown voltage	kV	10
Insulation resistance	MΩ•km	>5000

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TRANSMISSION PROPERTIES

Frequency MHz	Nom. attenuation @20°C,dB/100m	Coupling loss(50%/95%) @20°C,dB
75	1.05	71 / 81
100	1.23	74 / 85
150	1.51	63 / 69
350	2.36	67 / 69
400	2.54	63 / 65
700	3.53	67 / 72
800	3.83	65 / 68
900	5.75	67 / 76

- Attenuation & Coupling loss specifications are measured by free space method according to IEC 61196-4-2004.
- Attenuation & coupling loss values are given with tolerances of 5% and ±5dB,respectively.

VSWR

Tested in customers' operating band ≤1.3

ENVIRONMENTAL PROPERTIES

Recommended storage temperature	°C	-30~+80
Recommended installation temperature	°C	-25~+60
Recommended operating temperature	°C	-30~+80
IEC 60332-1		Complied
IEC 60754-1		Complied
IEC 60754-2		Complied
CPR		Eca

Your dealer:



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