

RMC Radiating Coaxial Cable

RMC 50LM-78L

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	Φ 9.20mm
Insulation	Physically foamed PE	Φ 22.50mm
Outer conductor	Overlapping copper foil with slots	
Jacket	Non-halogenated, fire retardant PE	Φ 27.30mm

MECHANICAL PROPERTIES

Minimum bending radius	mm	280
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	51 / 64
150	1.79	58 / 66
225	1.95	58 / 61
350	2.77	63 / 70
450	2.90	60 / 65
800	4.48	62 / 70
900	5.06	62 / 69

Attenuation & Coupling loss test method : IEC 61196-4.

VSWR

Tested in customers' operating band	≤1.3
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ENVIRONMENTAL PROPERTIES

Recommended storage temperature	°C	-70~+85
Recommended installation temperature	°C	-25~+60
Recommended operating temperature	°C	-40~+85