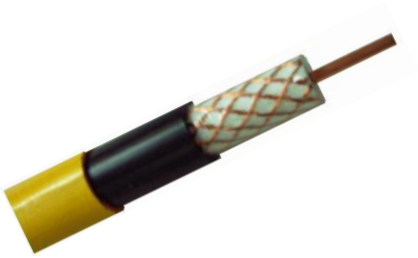
PRODUCT SPECIFICATION

CMC Radiating Coaxial Cable

CMC 75B-9

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 30~500MHz, 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	Copper clad aluminum wire	Φ2.00mm
Insulation	Physically foamed PE	Φ8.80mm
Outer conductor	Sparsely braided copper wire	
First jacket	Black, non-halogenated, fire retardant PE	Φ11.70mm
Second jacket	Yellow, fire retardant PVC	Φ13.70mm

MECHANICAL PROPERTIES

Minimum bending radius	mm	125

ELECTRICAL PROPERTIES

Impedance	Ω	50±2
Capacitance	pF/m	76
Propagation velocity	%	86
DC breakdown voltage	kV	10
Insulation resistance	MΩ•km	>10000

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TRANSMISSION PROPERTIES

Frequency	Nom. attenuation	Coupling loss(95%)
MHz	@20℃,dB/100m	@20℃,dB
60	3.70	75
150	5.20	75
450	9.70	70

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

VSWR

Tested in customers' operating band	≤1.3

ENVIRONMENTAL PROPERTIES

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