



KL 50D-78L

- 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 75~3000MHz, 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 9.40mm
Insulation	Physically foamed PE	Φ22.40mm
Outer conductor	Corrugated copper tube with double row milled slots	Φ25.60mm
Jacket	Non-halogenated, fire retardant PE	Φ27.90mm

MECHANICAL PROPERTIES

Minimum bending radius	mm	140
Tensile force	N	1500

ELECTRICAL PROPERTIES

Impedance	Ω	50±2
Capacitance	pF/m	75
Propagation velocity	%	88
DC breakdown voltage	kV	10
Insulation resistance	MΩ•km	>10000



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Frequency MHz	Nom. attenuation @20 °C, dB/100m	Coupling loss(50%/95%) @20 °C, dB
150	1.75	66 / 75
450	3.05	75 / 86
900	4.40	73 / 83
1800	6.80	70 / 81
1900	7.00	70 / 81
2200	7.80	70 / 81
2400	8.30	68 / 80

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