



## KL 50D-158

- 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	Φ17.30mm
Insulation	Physically foamed PE	Φ43.50mm
Outer conductor	Corrugated copper tube with double row milled slots	Φ46.50mm
Jacket	Non-halogenated, fire retardant PE	Φ49.50mm

### MECHANICAL PROPERTIES

Minimum bending radius	mm	280
Tensile force	N	3000

### 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	1.03	74 / 86
450	1.97	80 / 92
900	3.00	79 / 91
1800	4.80	74 / 86
1900	4.93	76 / 88
2200	5.40	83 / 95
2400	5.80	85 / 97

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

## VSWR

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Tested in customers' operating band	≤1.3
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## ENVIRONMENTAL PROPERTIES

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