### PRODUCT SPECIFICATION

#### Radiating Coaxial Cable

# HQ 50D-158

#### 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 75~3000MHz, 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	Ф17.30mm
Insulation	Physically foamed PE	Ф43.50mm
Outer conductor	Corrugated copper tube with double row milled slots	Ф46.50mm
Jacket	Non-halogenated, fire retardant PE	Ф49.50mm

#### **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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TRANSMISSION PROPERTIES					
Frequency	Nom. attenuation	Coupling loss(50%/95%)			
MHz	@20℃,dB/100m	<b>@</b> 20℃,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					
Tested in customers' operating band		≤1.3			
ENVIRONMENTAL PROPERTIES					
Recommended storage temperature	${\mathbb C}$	-70~+85			
Recommended installation temperature	$^{\circ}$	-25~+60			
Recommended operating temperature	$^{\circ}\!\mathrm{C}$	-40~+85			