

### DMA01450 AirCell® 50 Ohm Connectors

For use with 1/4" 50 Ohm Ultra Flexible & Plenum Cables

Description	DMA01250
<b>General Specifications</b>	
Interface	7/16 DIN Male
Body Style	Straight
<b>Electrical Specifications</b>	
Impedance, Ohms	50
Operating Frequency Band	0.3 MHz to 6 GHz
Dielectric Withstand Voltage	2 kV DC
3rd Order IMD	-145 dBc (-102 dBm) minimum
3rd Order IMD, Test Method	2 x 20 Watt carriers
Average Power	1.2 kW
Peak Power, maximum	6.4 kW
Insertion Loss, typical	0.05
Shielding Effectiveness	-130 dB
Return Loss (VSWR)	
DC to 1 GHz	23 dB (1.15)
1 GHz to 2 GHz	23 dB (1.15)
2 GHz to 3 GHz	21 dB (1.20)
3 GHz to 4 GHz	19 dB (1.25)
4 GHz to 5 GHz	17 dB (1.33)
5 GHz to 6 GHz	17 dB (1.33)
<b>Mechanical Specifications</b>	
Outer Contact Plating	TriMetal
Inner Contact Plating	Silver
Interface Durability	500 cycles
Interface Durability Test Method	IEC 16916
Minimum Connector Pull-off Force	80 lbs
<b>Environmental Specifications</b>	
Operating Temperature, °F (°C)	-40° to 140° (-40° to 60°)
Storage Temperature, °F (°C)	-40° to 140° (-40° to 60°)
Installation Temperature, °F (°C)	+5° to 194° (-15° to 90°)
Immersion Test Method	IEC60529:2001 IP68
Corrosion Test Method	MIL-STD-1344A
Thermal Shock Test Method	MIL-STD-202F
Vibration Test Method	MIL-STD-202F
<b>Regulatory Compliance/Certifications</b>	
RoHS 2011/65/EU Compliant	
TL 9000 H-V - All Cables designed and manufactured under this quality management system	

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