UTIFLEX®

UFC092D is the ideal coaxial solution for high-frequency applications in aerospace, defense, and advanced test systems. Its robust construction and reliable electrical performance make it perfect for use in radar systems, electronic warfare platforms, and space-constrained test environments. When design demands consistent performance under pressure, trust UTiFLEX[®] to deliver.

Details and Materials









Mechanical/Physical Properties

Center Conductor Diameter	in	0.0201
Center Conductor Diameter	mm	0.51
Dielectric Diameter	in	0.060
	mm	1.53
Outer Conductor Diameter	in	0.0680
	mm	1.73
Outer Shield Diameter	in	0.079
Outer Shield Diameter	mm	2.01
Jacket Diameter	in	0.092
Jacket Diameter	mm	2.34
Jacket Wall Thickness	in	≥ 0.004
Jacket wall Thickness	mm	≥ 0.102
Weight	grams/ft	≤ 5 .0
weight	grams/m	≤ 16.4
Min Static Bend Radius	in	0.130
	mm	3.30
Dynamic Flex Life - Snake ³	cycles	3,000
Center Conductor Strands		1

Electrical Properties

Velocity of Propagation	(%)	77	
RF Shielding	(dB) at 1 GHz	\geq 100	
Canacitanaa	pF/ft	26.45	
Capacitance	pF/m	86.79	
Maximum Frequency	GHz	70	
Corona Extinction Voltage	VRMS @ 60Hz	2500	
Dielectric Withstanding Voltage	VRMS @ 60Hz	5000	
Insertion Loss Stability	% Change ²	≤ 5	
K1	Ft (m)	2.90 (0.686)	
K2	Ft (m)	0.26 (0.009)	

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Maximum Attenuation¹, Power, and VSWR

(at 20°C and Sea Level)

Frequency GHz	Attenuation dB/100ft	dB/m	Power Watts (CW)	VSWR
0.5	15	0.49	219	≤1.20:1
1	22	0.72	154	≤1.20:1
5	49	1.61	68	≤1.20:1
10	69	2.26	48	≤1.20:1
18	94	3.08	35	≤1.20:1
26.5	115	3.77	29	≤1.20:1
40	143	4.69	23	≤1.20:1
50	161	5.28	21	≤ 1.25:1
65	186	6.10	18	≤ 1.25:1
70	194	6.36	17	\leq 1.30:1

Environmental Properties

Thermal Shock	MIL-STD-202, Method 107, 20 Cycles, -65 to 165 °C (cable and SMA connectors only)
Aging Stability	Not Applicable for MIL-DTL-17, Type IX Jackets
Vibration	MIL-STD-202, Method 204, Test Condition B
High Pressure	Pressure increased \leq 10 bar/min to 100 +/- 2 bar for 12 hrs.
Humidity	MIL-STD-810, Method 507.5, Procedure I and II
Salt Fog	MIL-STD-810, Method 509
Sand and Dust	MIL-STD-810, Method 510, Procedure I
Stress Crack Resistance	MIL-DTL-17, Paragraph 4.8.17
Cold Bend Test	MIL-DTL-17, Paragraph 4.8.19
Outgassing	Less than 1% TML and 0.1% CVCM
Radiation Resistance	30 Mrads
Flammability	14 CFR Part 25, Appendix F, Part I (b)(7), 60° flammability test

Notes

- **1.** Maximum Attenuation (db./100Ft) = K1VF + K2F where F is Frequency in GHz.
- Insertion Loss change, while vibrated at a frequency of 6 Hz and an amplitude of 1 inch.
 Snake test. One end of a 3-ft sample is fixed. The other end is moved inward along the axis of the sample forcing the cable into a "U" shape. It then returns to straight configuration for one flex cycle.
- Cable assemblies of equal length and connectors made from the same cable manufacturing lot shall phase track within 200 PPM of each other.

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Typical Phase Change vs. Temperature⁴



Maximum Insertion Loss







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