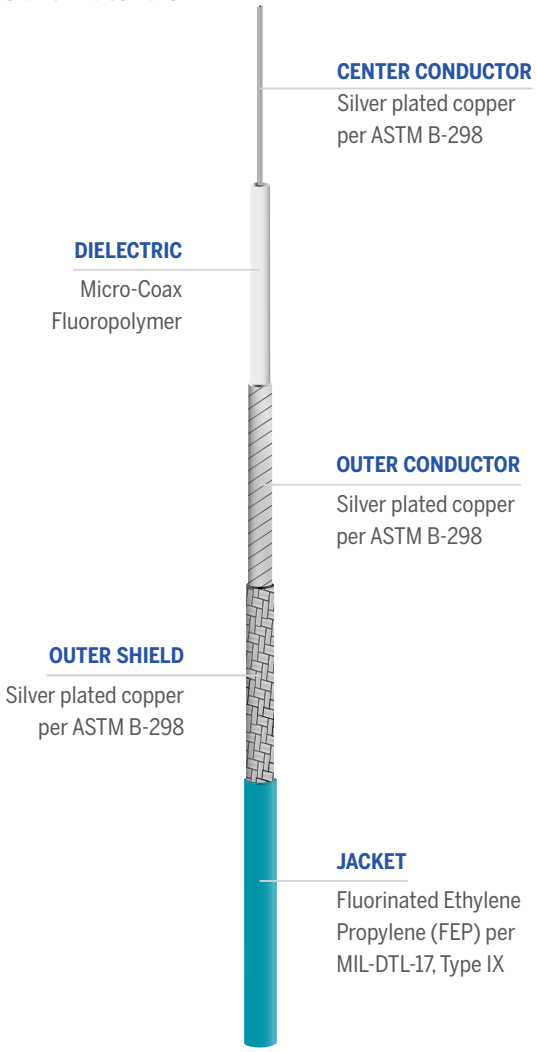
UFP205A

UTiFLEX®

UFP205A 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.

Impedance 50 Ohms | **Operating Temperature** -55°C to +125°C | **RoHS** Compliant

Details and Materials



Mechanical/Physical Properties

Jacket Diameter	in	0.205
	mm	5.21
Weight	grams/ft	≤ 20.6
	grams/m	≤ 67.6
Min Static Bend Radius	in	0.500
	mm	12.70
Center Conductor Strands		1

Electrical Properties

Velocity of Propagation	(%)	82.5
RF Shielding	(dB) at 1 GHz	≥ 100
Capacitance	pF/ft	24.69
	pF/m	81.00
Maximum Frequency	GHz	26.5
Corona Extinction Voltage	VRMS @ 60Hz	500
Dielectric Withstanding Voltage	VRMS @ 60Hz	5000
Insertion Loss Stability	% Change[2]	≤ 5
K1	Ft (m)	5.80 (0.190)
K2	Ft (m)	1.40 (0.046)

Maximum Attenuation[1] and VSWR[4]

(at 20°C and Sea Level)

Frequency GHz	Attenuation dB/100ft	dB/m	VSWR
0.5	5	0.16	≤1.25:1
1	8	0.26	≤1.25:1
5	20	0.66	≤1.25:1
10	33	1.08	≤1.25:1
18	50	1.64	≤1.25:1
26.5	67	2.20	≤1.35:1

206 Jones Blvd, Pottstown, PA 19464, United States +1 (610) 495-0110

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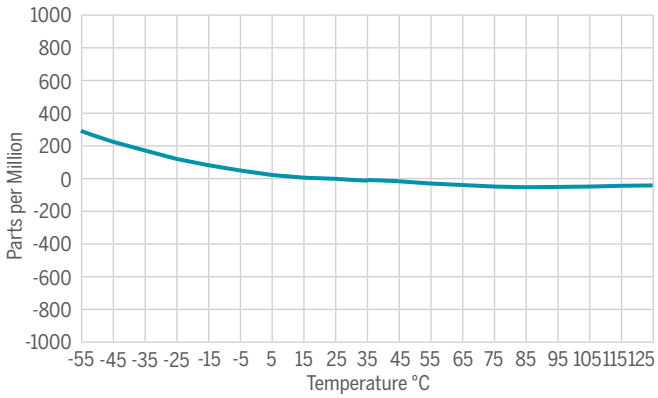
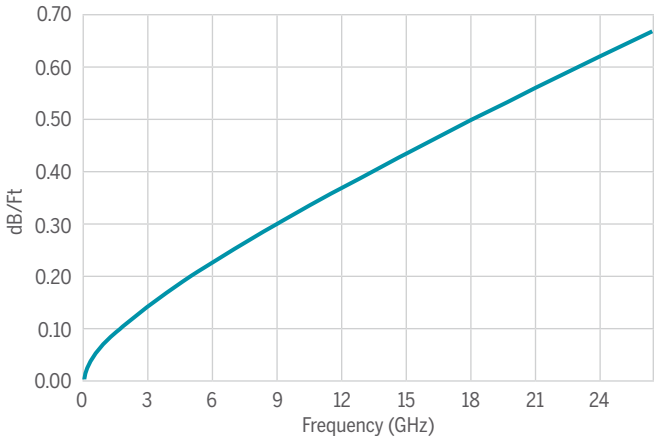
Environmental Properties

Thermal Shock	MIL-STD-202, Method 107, 20 Cycles, -55 to 125 °C (cable and SMA connectors only)
Stress Crack Resistance	MIL-DTL-17, Paragraph 4.8.17, except at 125 °C
Cold Bend Test	MIL-DTL-17, Paragraph 4.8.19

Typical Phase Change vs. Temperature



Maximum Insertion Loss



Notes

1. Maximum Attenuation (db./100Ft) = K1√F + K2F where F is Frequency in GHz.
2. Insertion Loss change, while vibrated at a frequency of 6 Hz and an amplitude of 1 inch.
3. Reserved.
4. VSWR testing to be performed on 20-foot minimum lengths with gating used to remove connector contributions. Minimum frequency points shall be 1601.

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