

206 Jones Blvd. Pottstown, PA 19464 USA
Phone: 610-495-0110 : 800-223-2629
www.micro-coax.com

UTiFLEX Flexible Microwave Cable Assemblies

MECHANICAL CHARACTERISTICS

Outer Diameter, inch (mm)	0.147 (3.73)
Minimum Bend Radius, inch (mm)	0.25 (6.35)
Flexures	10,000
Weight , grams/ft. (meter)	12.1 (39.7)

ELECTRICAL CHARACTERISTICS

Impedance(ohms)	50
Frequency Range (GHz)	0.05 - 40
Velocity of Propagation	77%
Capacitance, pF/ft. (pF/meter)	26.2 (85.96)
Shielding Effectiveness, dB @ 1GHz	>100
Maximum Insertion Loss , dB/ft. (dB/meter)	Frequency

Insertion Loss per Catalog

1.0 GHz	0.11 (0.36)
10.0 GHz	0.39 (1.28)
18.0 GHz	0.54 (1.77)
26.5 GHz	0.67 (2.2)
40.0 GHz	0.85 (2.79)
50.0 GHz	N/A ()

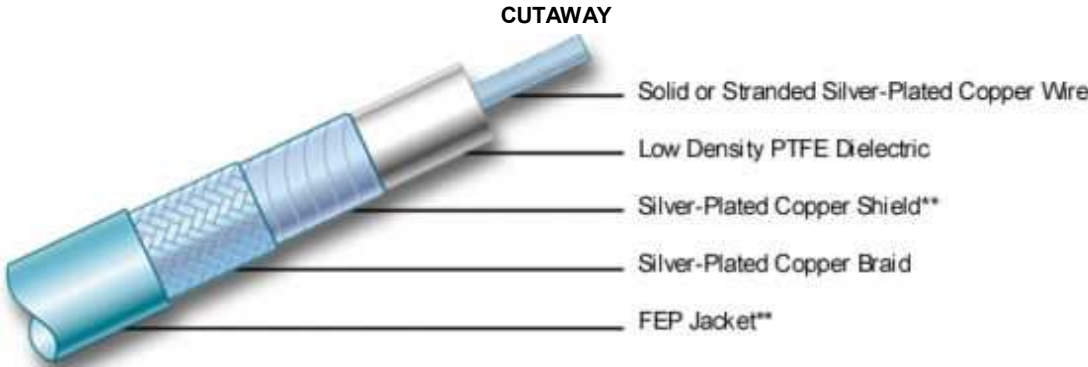
Phase Stability Versus Flexure	10 GHz: 3° 18 GHz: 5°
VSWR	Based on connector selections.

ENVIRONMENTAL CHARACTERISTICS

Temperature Range(Deg C)	-65/+165
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MATERIALS

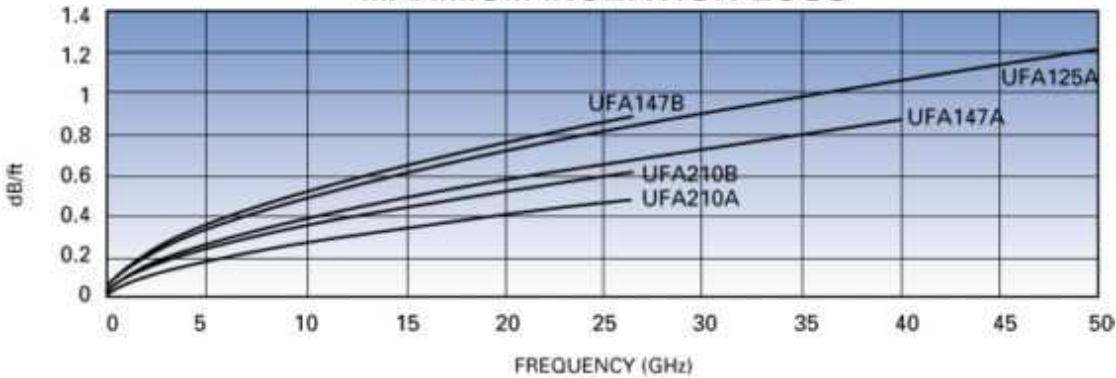
Outer jacket	Fluorinated Ethylene Propylene (FEP)
Braid	SPC Braid
Outer Conductor	Silver plated copper tape
Dielectric	LD PTFE
Center Conductor	Solid SPC



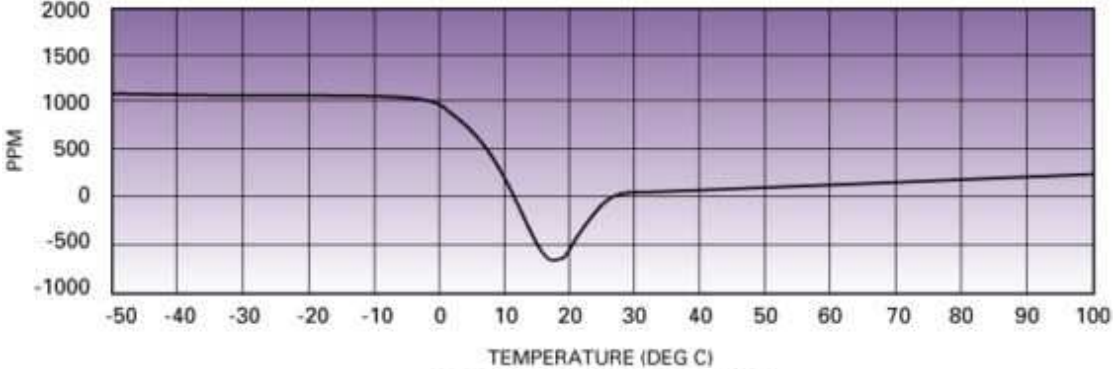
**Not typical for UGN070D

CHARTS

MAXIMUM INSERTION LOSS

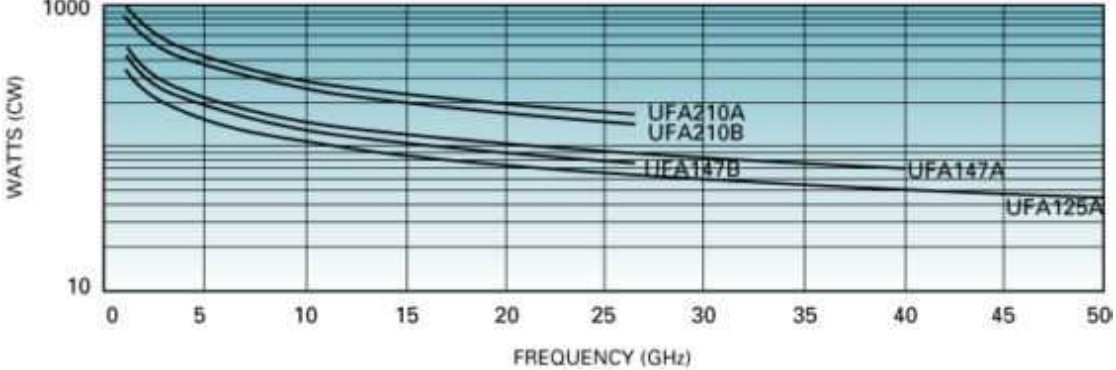


PHASE STABILITY VS. TEMPERATURE



Phase Chart

POWER HANDLING



Power Chart
Average Power Handling, Watts CW at 20 degrees Celsius and Sea level