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UTiFLEX Flexible Microwave Cable Assemblies

MECHANICAL CHARACTERISTICS

Outer Diameter, inch (mm)	0.142 (3.61)
Minimum Bend Radius, inch (mm)	0.38 (9.65)
Flexures	35,000
Weight , grams/ft. (meter)	9.9 (32.49)

ELECTRICAL CHARACTERISTICS

Impedance(ohms)	50
Frequency Range (GHz)	0.05 - 40
Velocity of Propagation	83%
Capacitance, pF/ft. (pF/meter)	24.5 (80.38)
Shielding Effectiveness, dB @ 1GHz	>100
Typical Insertion Loss , dB/ft. (dB/meter)	Frequency

Frequency	Insertion Loss per Catalog
1.0 GHz	0.12 (0.39)
10.0 GHz	0.38 (1.25)
18.0 GHz	0.51 (1.67)
26.5 GHz	0.62 (2.03)
40.0 GHz	0.77 (2.53)
50.0 GHz	N/A ()

Phase Stability Versus Flexure	10 GHz: 1° 18 GHz: 1°
VSWR	Based on connector selections.

ENVIRONMENTAL CHARACTERISTICS

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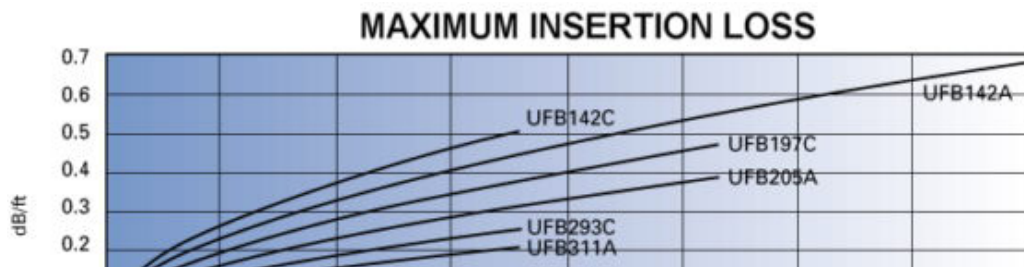
MATERIALS

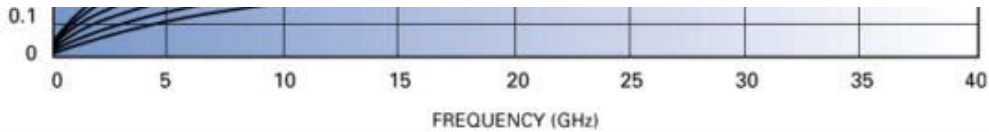
Outer jacket	Fluorinated Ethylene Propylene (FEP)
Braid	SPC Alloy Braid
Outer Conductor	Silver plated copper tape
Dielectric	ULD PTFE
Center Conductor	7 Strand SPC



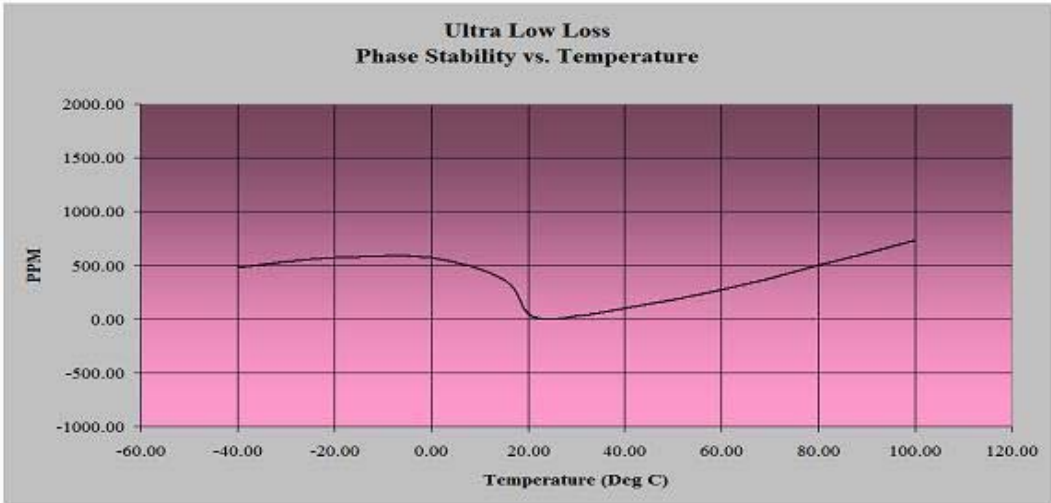
CHARTS

Insertion Loss Chart





Phase Chart



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

