Amphenol CIT
Cable & Interconnect Technologies

UFB142A

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	75,000
Weight , grams/ft. (meter)	10.1 (33)

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

Maximum Insertion Loss , dB/ft. (dB/meter)

Frequency	Insertion Loss per Catalog
1.0 GHz	0.1 (0.33)
10.0 GHz	0.33 (1.08)
18.0 GHz	0.44 (1.44)
26.5 GHz	0.54 (1.77)
40.0 GHz	0.68 (2.23)
50.0 GHz	N/A ()

Phase Stability Versus Flexure	10 GHz: 3^0 18 GHz: 5^0
VSWR	Based on connector selections.

ENVIRONMENTAL CHARACTERISTICS

Temperature Range(Deg C)	-65/+165

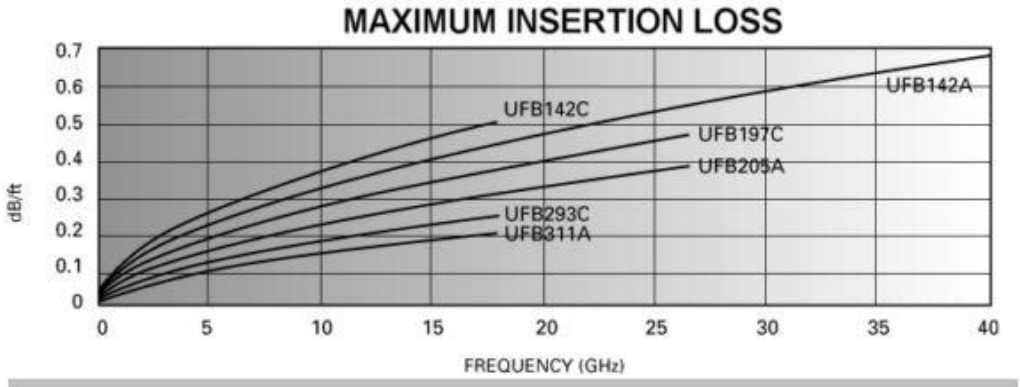
MATERIALS

Outer jacket	Fluorinated Ethylene Propylene (FEP)
Braid	SPCS95
Outer Conductor	Silver plated copper tape
Dielectric	ULD PTFE
Center Conductor	Solid SPC

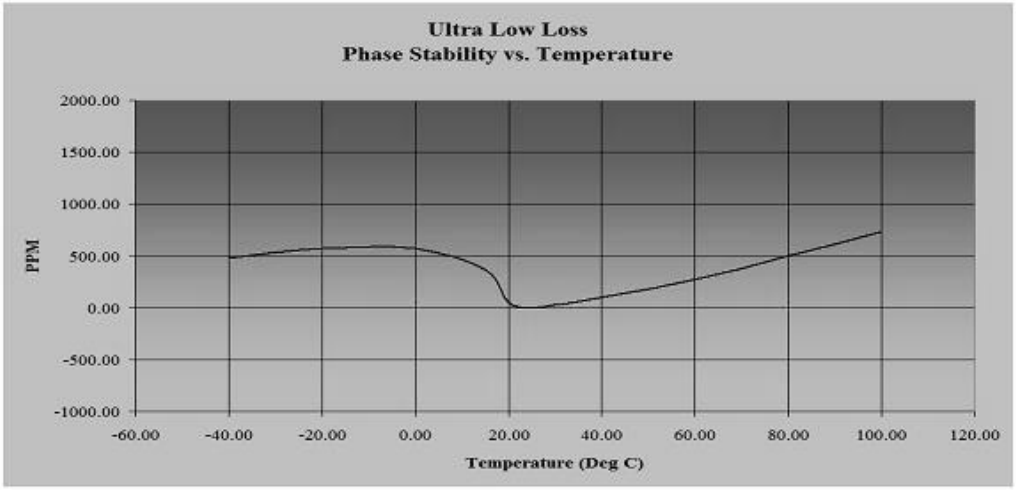
CUTAWAY

CHARTS

Insertion Loss Chart



Phase Chart



Power Chart

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