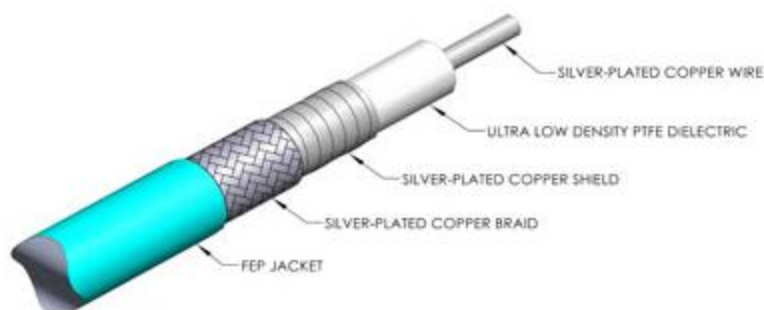


UFB142A

UTiFLEX Ultra Low Loss cable assemblies are optimized to provide the lowest insertion loss available in a flexible cable construction up to 18, 26.5, and 40 GHz.



MATERIALS

ULTRA LOW LOSS

Cable Part Number		UFB142A
Center Conductor Material		SPC
Dielectric Material		LD PTFE
Inner Shield Material		SPC
Outer Shield Material		SPC
Jacket Material		FEP

MECHANICAL CHARACTERISTICS*

Outer Diameter	In	0.142
	mm	3.61
Center Conductor Type		Solid
Weight	g / ft	10.1
	g / m	33.1
Minimum Bend Radius	In	0.38
	mm	9.65

ENVIRONMENTAL CHARACTERISTICS

Temperature Range (Deg C)		-65/+165
Radiation (Mrads)		30.0

ELECTRICAL CHARACTERISTICS*

Impedance (ohms)		50
Frequency Range (GHz)		DC-40
Velocity of Propagation		83%
Capacitance	pF / ft	24.5
	pF / m	80.4
Shielding Effectiveness (dB @ 1 GHz)		>100
Maximum Insertion Loss (dB / ft)	1 GHz	0.1
	10 GHz	0.33
	18 GHz	0.44
	26.5 GHz	0.54
	40 GHz	0.68
	50 GHz	N/A
Maximum Insertion Loss (dB / m)	1 GHz	0.33
	10 GHz	1.08
	18 GHz	1.44
	26.5 GHz	1.77
	40 GHz	2.23
	50 GHz	N/A
Phase Stability vs. Flexure (10 GHz)	Degrees	4.0
	Degrees	8.5

* Applicable at room temperature. Contact factory for performance over temperature range.