

UTiFLEX® Miniature Low-Loss Cable Assemblies

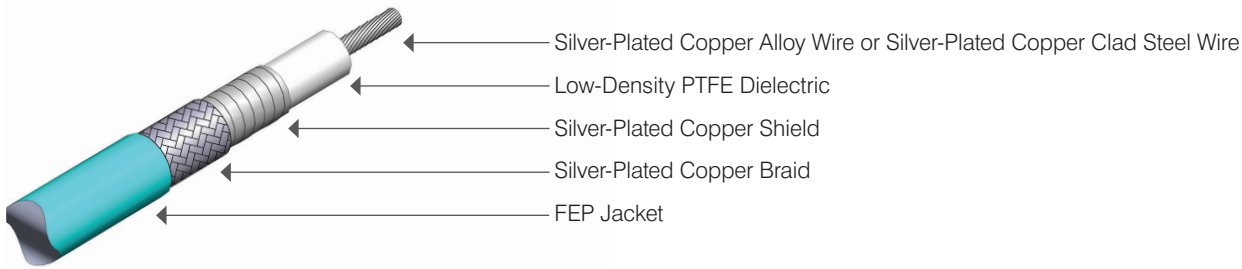
These general purpose microwave miniature cables have been designed to offer superior electrical performance in the smallest possible package for fixed installations. They are a cost-effective alternative when an RG cable cannot perform to your system needs, or when a semi-rigid cable is too cumbersome. The UTiFLEX® miniature cables are available with a large selection of connectors, and can be easily customized to meet your exact requirements.

Mechanical Characteristics		UGF070D	UFF092D	UFF092F
Outer Diameter <i>in (mm)</i>		0.070 (1.78)	0.092 (2.34)	0.092 (2.34)
Center Conductor Type		Solid	Solid	Stranded
Max. Weight <i>g/ft (g/m)</i>		3 (9.8)	5 (16.4)	5 (16.4)
Min. Bend Radius <i>in (mm)</i>		0.10 (2.54)	0.13 (3.30)	0.25 (6.35)
Cable Flex Life		100,000 *	25,000 *	170,000 *
Electrical Characteristics		UGF070D	UFF092D	UFF092F
Impedance		50 Ω	50 Ω	50 Ω
Frequency Range		DC to 18 GHz	DC to 18 GHz	DC to 18 GHz
Velocity of Propagation		87%	77%	77%
Capacitance <i>pF/ft (pF/m)</i>		26.2 (86)	26.2 (86)	26.2 (86)
Shielding Effectiveness	@ 1 GHz	> 100 dB	> 100 dB	> 100 dB
	@ 10 GHz	0.29 (0.92)	0.20 (0.66)	0.22 (0.72)
Max. Insertion Loss <i>db/ft (dB/M)</i>	@ 10 GHz	1.01 (3.31)	0.67 (2.20)	0.71 (2.33)
	@ 18 GHz	1.41 (4.63)	0.92 (3.02)	0.98 (3.22)
		See figure on next page		
Phase Stability vs. Flexure	@ 10 GHz	2° †	2° ‡	2° ‡
	@ 18 GHz	3° †	3° ‡	3° ‡
Phase Stability vs. Temp.		See figure on next page		
Power Handling		See figure on next page		
VSWR		See figure on next page		
Environmental Characteristics		UGF070D	UFF092D	UFF092F
Temperature Range		-65 °C to 165 °C	-65 °C to 165 °C	-65 °C to 165 °C
See Page 22 for applicable environmental test				

* Cable shall withstand specified number of unrestrained flexures (snake test)

† Cable wrapped once around a 1.5 in diameter mandrel

‡ Cable wrapped once around a 3 in mandrel



We are constantly improving products. Please contact us for the latest detailed specification sheet for any individual cable.

Performance

