

flexibility when compared to standard microwave cables.



MECHANICAL CHARACTERISTICS

UTIFLEX TYPE	UFB142C	UFB142A	UFB197C	UFB205A	UFB293C	UFB311A
Outer Diameter inch (mm)	0.142 (3.61)	0.142 (3.61)	0.197 (5.00)	0.205 (5.21)	0.293 (7.44)	0.311 (7.90)
Center Conductor Type	Stranded	Solid	Stranded	Solid	Stranded	Solid
Weight grams/ft (meter)	9 (29.5)	10 (32.8)	18 (59.1)	20 (65.6)	37 (121.4)	42 (137.8)
Minimum Bend Radius inch (mm)	0.38 (9.65)	0.38 (9.65)	0.50 (12.70)	0.50 (12.70)	0.75 (19.05)	1.25 (31.75)
Flexures	35,000	5,000	35,000	5,000	35,000	5,000

ELECTRICAL CHARACTERISTICS

Impedance (ohms)	50	50	50	50	50	50
Frequency Range (GHz)	DC-18	DC-40	DC-26.5	DC-26.5	DC-18	DC-18
Velocity of Propagation	83%	83%	83%	83%	83%	83%
Capacitance pf/ft (meter)	24.5 (80.4)	24.5 (80.4)	24.5 (80.4)	24.5 (80.4)	24.5 (80.4)	24.5 (80.4)
Shielding Effectiveness (dB @ 1 GHz)	> 100	> 100	> 100	> 100	> 100	> 100
Maximum Insertion Loss dB/ft (meter)	See figure on next page					
1 GHz	0.12 (0.39)	0.11 (0.36)	0.09 (0.30)	0.08 (0.26)	0.06 (0.20)	0.05 (0.16)
10 GHz	0.38 (1.25)	0.33 (1.08)	0.30 (0.98)	0.23 (0.76)	0.19 (0.62)	0.15 (0.49)
18 GHz	0.51 (1.67)	0.45 (1.48)	0.40 (1.31)	0.32 (1.05)	0.26 (0.85)	0.21 (0.69)
26.5 GHz	—	0.55 (1.81)	0.49 (1.61)	0.39 (1.28)	—	—