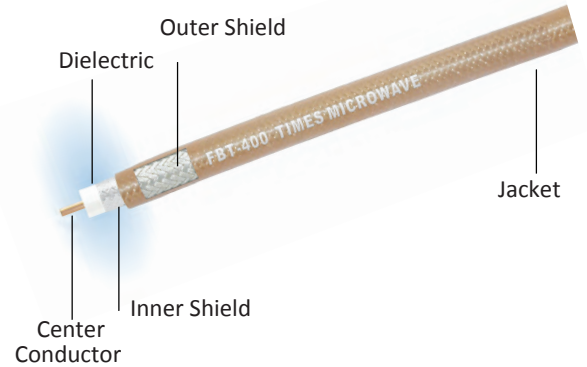


# FBT Cables

## Cable Feature:

Flexibility	Fair
Cost	Medium/High
Attenuation	Low
Power Handling	High
Temperature	High
Connector Availability	Very Good



	FBT-400	FBT-500	FBT-600
<b>AA Drawing Number</b>	AA-8957	AA-8958	AA-8959
<b>Part Number</b>	54171	54172	54173
<b>Physical Specifications</b>			
Description	in (mm)	in (mm)	in (mm)
Center Conductor	Solid BCCAl	Solid BCCAl	Solid BCCAl
	0.095 (2.14)	0.123 (3.12)	0.150 (3.81)
Dielectric	PTFE	PTFE	PTFE
	0.285 (7.24)	0.370 (9.40)	0.455 (11.56)
Inner Shield	MT	MT	MT
	0.291 (7.39)	0.376 (9.55)	0.461 (11.71)
Interlayer	/	/	/
Outer Shield	TC	TC	TC
	0.320 (8.13)	0.405 (10.29)	0.490 (12.45)
Jacket	FEP	FEP	FEP
	0.370 (9.40)	0.465 (11.81)	0.565 (14.35)
<b>Mechanical Specifications</b>			
Bend Radius	4.0 (101.6)	5.0 (127.0)	6.0 (152.4)
Weight	0.104 lb/ft	0.168 lb/ft	0.210 lb/ft
Operating Temperature Range	-55/+150 °C	-55/+150 °C	-55/+150 °C
<b>Electrical Specifications</b>			
Impedance	50 ohms	50 ohms	50 ohms
Shielding Effectiveness	90 dB	90 dB	90 dB
Dielectric Constant	1.73	1.73	1.73
Velocity of Propagation	0.76	0.76	0.76
Capacitance	26.7pF/ft	26.7pF/ft	26.7pF/ft
DC Voltage (kV)	5	7	8
<b>Attenuation: dB/100ft (100m) (+25 °C Ambient; Sea Level)</b>			
13.56 MHz	0.48 (1.57)	0.37 (1.22)	0.30 (0.99)
50 MHz	0.92 (3.02)	0.72 (2.35)	0.58 (1.91)
100 MHz	1.31 (4.28)	1.02 (3.34)	0.83 (2.72)
1000 MHz	4.23 (13.87)	3.32 (10.88)	2.72 (8.92)
1500 MHz	5.22 (17.12)	4.10 (13.45)	3.37 (11.06)
2000 MHz	6.07 (19.90)	4.78 (15.66)	3.93 (12.90)
2500 MHz	6.82 (22.38)	5.38 (17.64)	4.43 (14.55)
3000 MHz	7.51 (24.64)	5.93 (19.45)	4.90 (16.06)
K1	0.129138	0.100255	0.081389
K2	0.000146	0.000146	0.000146
<b>Power (Watts) (+25 °C Ambient; Sea Level)</b>			
13.56 MHz	31011	44385	56975
50 MHz	16096	23010	29501
100 MHz	11350	16208	20758
1000 MHz	3516	4984	6336
1500 MHz	2852	4033	5115
2000 MHz	2456	3467	4388
2500 MHz	2186	3080	3893
3000 MHz	1987	2796	3528

\* BCCAl = Bare Copper Clad Aluminum