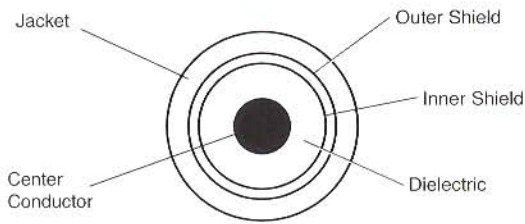


FBT™ Specifications:



Construction

Center Conductor: Solid Bare Copper
(FBT-195, 200, 240 & 300)

Solid Bare Copper Clad
Aluminum
(FBT-400, 500 & 600)

Dielectric: Low Density Taped PTFE

Inner Shield: Laminated Aluminum Tape

Outer Shield: Tinned Copper Braid (90% k)

Jacket: Transparent Brown Teflon FEP

Benefits

Low loss, cost effective design for +150°C applications.

Connectors

A good selection of standard interface connectors (crimp or clamp style) are available. FBT cables can be purchased in bulk reels or as preterminated and tested cable assemblies.

For further information, pricing and delivery, please contact our Sales Department.

About TIMES MICROWAVE SYSTEMS

Times Microwave Systems, a division of Smiths Industries, Aerospace and Defense Systems, Inc., was founded in 1948 and was formerly known as Times Wire and Cable Company. Times Microwave Systems specializes in the design and manufacture of high performance flexible, semi-flexible and semi-rigid coaxial cable, connectors and cable assemblies. Times Microwave Systems with over 50 years of leadership in the defense microwave systems' arena offers high tech solutions to today's most challenging applications.

	FBT-195	FBT-200	FBT-240	FBT-300	FBT-400	FBT-500	FBT-600
Physical and Mechanical Specifications							
Dimensions							
Conductor	0.037"	0.040"	0.051"	0.061"	0.095"	0.123"	0.150"
Dielectric	0.113"	0.116"	0.150"	0.190"	0.285"	0.370"	0.455"
Shield: Aluminum Tape Braid	0.119" 0.142"	0.121" 0.144"	0.155" 0.178"	0.196" 0.225"	0.291" 0.320"	0.375" 0.405"	0.461" 0.490"
Jacket	0.175"	0.175"	0.205"	0.260"	0.370"	0.465"	0.565"
Bend Radius (in)	0.875"	0.875"	1.00"	1.25"	1.75"	2.25"	2.75"
Weight (lbs/ft)	0.030	0.030	0.040	0.065	0.104	0.170	0.210
Temperature Range	-55°C to +150°C						
Electrical Specifications							
Impedance	50 ohms						
Velocity %	76						
Capacitance pf per foot	26.7						
Shielding	> 90 dB						
Attenuation (dB per 100 Feet, +25°C)							
Frequency/Size	0.175"	0.175"	0.205"	0.260"	0.370"	0.465"	0.565"
30 MHz	1.9	1.8	1.4	1.1	0.7	0.55	0.45
50 MHz	2.4	2.3	1.8	1.4	0.9	0.72	0.58
150 MHz	4.2	4.1	3.1	2.5	1.6	1.2	1.0
220 MHz	5.1	4.9	3.7	3.0	1.9	1.5	1.2
450 MHz	7.3	7.1	5.4	4.3	2.8	2.2	1.8
900 MHz	10.4	8.8	7.6	6.2	4.0	3.1	2.6
1,000 MHz	11.0	10.5	7.9	6.5	4.2	3.3	2.7
1,500 MHz	13.5	13.0	9.9	8.0	5.2	4.1	3.4
2,000 MHz	15.6	15.1	11.5	9.3	6.1	4.8	3.9
2,500 MHz	17.5	16.9	12.9	10.5	6.8	5.4	4.4
5,800 MHz	27.0	26.1	20.0	16.3	10.7	8.5	7.1
Attenuation at Frequency	A = K1 √FMHz + K2 FMHz						
K1	.340820	.329075	.248515	.200179	.129138	.100255	.081389
K2	.000183	.000183	.000183	.000183	.000146	.000146	.000146
Power Handling (Watts, +40°C, Sea Level, 1:1 VSWR)							
Frequency/Size	0.175"	0.175"	0.205"	0.260"	0.370"	0.465"	0.565"
30 MHz	1.6	1.7	2.5	3.4	6.2	8.9	11.8
50 MHz	1.25	1.3	1.9	2.6	4.8	6.9	9.1
150 MHz	0.72	0.76	1.1	1.5	2.8	3.9	5.2
220 MHz	0.59	0.62	0.91	1.2	2.3	3.2	4.3
450 MHz	0.41	0.43	0.63	0.85	1.6	2.2	3.0
900 MHz	0.29	0.30	0.44	0.60	1.1	1.6	2.1
1,000 MHz	0.27	0.29	0.42	0.57	1.0	1.5	1.9
1,500 MHz	0.22	0.23	0.34	0.46	0.84	1.2	1.6
2,000 MHz	0.19	0.20	0.29	0.39	0.73	1.0	1.3
2,500 MHz	0.17	0.18	0.26	0.35	0.65	0.9	1.2
5,800 MHz	0.11	0.11	0.16	0.22	0.41	0.6	0.7



World Headquarters: 358 Hall Avenue, Wallingford, CT 06492
203-949-8400, 1-800-867-2629 FAX: 203-949-8423

International Sales: 4 School Brae, Dysart, Kirkcaldy, Fife, Scotland KY1 2XB UK
+44(0)1592655428 FAX: +44(0)1592653162

www.timesmicrowave.com

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