



0471 Series Operating Up to 110 GHz



Center Conductor
Silver Plated
Copper

Dielectric
PTFE

Foil
Silver Plated
Copper

Braid
Silver Plated
Copper

Outer Jacket
FEP
(1.45mm 0.057")

0471

Electrical Characteristics

Impedance	50 +/- 2Ω
Cut Off Frequency (cable only, max)	115 GHz
Capacitance	29 pF/ft.
Velocity of Propagation	71%
Time Delay	1.4 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB
Power Handling	See Chart

Mechanical Characteristics:

Weight	0.075 oz/ft (6.9g/m)
Minimum Bend Radius inches (mm)	0.0625" (1.6mm)

Environmental Characteristics:

Operating Temperature Range ¹	-65°C to +165°C
RoHS (2002/95/EC)	Available on request

¹+200°C available on request

VSWR for assemblies with two straight connectors

1.35:1 to 18 GHz



0471 Series (Continued)

Attenuation (max)

GHz	0471		Power(W) @ 20°C @ Sea Level
	dB/ft.	dB/m	
0.04	0.22	0.72	50.0
1	0.43	1.41	32.0
2	0.51	1.67	25.0
4	0.74	2.43	15.0
6	0.92	3.02	12.0
8	1.07	3.51	10.0
10	1.29	4.23	9.0
12	1.30	4.26	8.0
14	1.50	4.92	7.5
16	1.60	5.25	7.0
18	1.76	5.77	6.5
20	1.86	6.10	6.0
22	1.96	6.43	5.6
24	2.06	6.76	5.3
26	2.16	7.08	5.0
28	2.26	7.41	4.8
30	2.31	7.58	4.6
32	2.41	7.90	4.4
34	2.51	8.23	4.0
36	2.61	8.56	3.8
38	2.71	8.89	3.6
40	2.73	8.95	3.4
50	3.02	9.90	3.2
60	3.38	11.07	3.0
80	4.04	13.25	2.4
90	4.35	14.27	2.3
100	4.65	15.27	2.1
110	4.95	16.23	2.0

