



## 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 <sup>1</sup>	-65°C to +165°C
RoHS (2002/95/EC)	Available on request

<sup>1</sup>+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

