



## 115 Series Operating Up to 62 GHz



**Center Conductor**  
Silver Plated Copper  
1151 Solid  
1156 Stranded

**Dielectric**  
PTFE

**Foil**  
Silver Plated  
Copper

**Braid**  
Silver Plated  
Copper

**Outer Jacket**  
FEP  
(2.46mm 0.097")

	1151	1156
<b>Electrical Characteristics</b>		
Impedance	50 +/- 2Ω	50 +/- 2Ω
Cut Off Frequency (cable only, max)	62 GHz	62 GHz
Capacitance	29 pF/ft.	29 pF/ft.
Velocity of Propagation	71%	71%
Time Delay	1.4 ns/ft.	1.4 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB	>90 dB
Power Handling	See Chart	See Chart
<b>Mechanical Characteristics:</b>		
Weight	.32 oz/ft (30g/m)	.32 oz/ft (30g/m)
Minimum Bend Radius inches (mm)	0.25" (6.5mm)	0.25" (6.5mm)
<b>Environmental Characteristics:</b>		
Operating Temperature Range <sup>1</sup>	-65°C to +165°C	-65°C to +165°C
RoHS (2002/95/EC)	Available on request	Available on request
<sup>1</sup> +200°C available on request		
VSWR for assemblies with two straight connectors	1.35:1 to 18 GHz	1.35:1 to 18 GHz
VSWR for assemblies with one straight and one right angle connector	1.40:1 to 18 GHz	1.40:1 to 18 GHz
VSWR for assemblies with two right angle connectors	1.45:1 to 18 GHz	1.45:1 to 18 GHz



## 115 Series (Continued)

### Attenuation (max)

GHz	1151			1156		
	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.04	0.12	0.39	270	0.14	0.45	241
1	0.19	0.63	220	0.22	0.72	196
2	0.28	0.92	200	0.32	1.05	170
4	0.41	1.34	120	0.47	1.53	107
6	0.51	1.68	85	0.58	1.91	76
8	0.61	1.98	75	0.69	2.26	67
10	0.69	2.26	70	0.78	2.57	63
12	0.77	2.51	65	0.87	2.86	58
14	0.84	2.75	60	0.96	3.14	54
16	0.91	2.98	55	1.04	3.40	49
18	0.98	3.20	50	1.11	3.65	45
20	1.04	3.42	45	1.19	3.89	40
22	1.10	3.62	43	1.26	4.13	38
24	1.17	3.82	42	1.33	4.36	38
26	1.23	4.02	40	1.40	4.58	36
28	1.28	4.21	39	1.46	4.80	35
30	1.34	4.40	38	1.53	5.01	34
32	1.40	4.58	37	1.59	5.22	33
34	1.45	4.76	36	1.65	5.43	32
36	1.51	4.94	35	1.72	5.63	31
38	1.56	5.11	32	1.78	5.83	29
40	1.61	5.28	30	1.84	6.02	27
42	1.66	5.45	29	1.90	6.22	26
44	1.71	5.62	28	1.95	6.41	25
46	1.76	5.79	27	2.01	6.60	24
48	1.81	5.95	26	2.07	6.78	23
50	1.86	6.11	25	2.12	6.97	22
52	1.91	6.27	25	2.18	7.15	22
54	1.96	6.43	25	2.24	7.33	22
56	2.01	6.59	23	2.29	7.51	21
58	2.06	6.74	23	2.34	7.69	21
60	2.10	6.90	22	2.40	7.86	20
62	2.15	7.05	22	2.45	8.04	20

