



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
Electrical Characteristics		
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
Mechanical Characteristics:		
Weight	.2 oz/ft (19g/m)	.2 oz/ft (19g/m)
Minimum Bend Radius inches (mm)	0.25" (6.5mm)	0.25" (6.5mm)
Environmental Characteristics:		
Operating Temperature Range ¹	-65°C to +165°C	-65°C to +165°C
RoHS (2002/95/EC)	Available on request	Available on request
¹ +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

