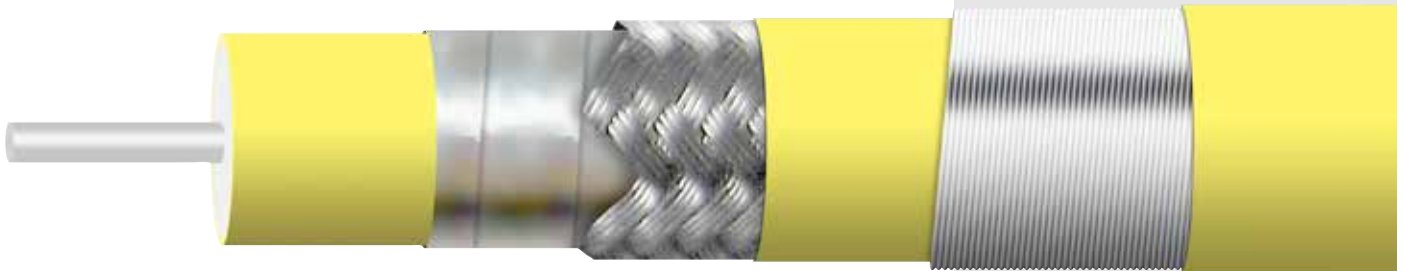




## 150 Series Operating Up to 40 GHz



Center Conductor	Dielectric	Foil	Braid	Outer Jacket	Serving	Outer Jacket
Silver Plated Copper 1501/1503 Solid 1506/1508 Stranded	EPTFE	Silver Plated Copper	Silver Plated Copper	FEP (3.65mm 0.144")	SCCS Armor	FEP (4.87mm 0.192")

	1501	1506	1503	1508
<b>Electrical Characteristics</b>				
Impedance	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω
Cut Off Frequency (cable only, max)	45 GHz	42 GHz	45 GHz	42 GHz
Capacitance	24 pF/ft.	26 pF/ft.	24 pF/ft.	26 pF/ft.
Velocity of Propagation	83%	83%	83%	83%
Time Delay	1.22 ns/ft.	1.22 ns/ft.	1.22 ns/ft.	1.22 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB	>90 dB	>90 dB	>90 dB
Power Handling	See Chart	See Chart	See Chart	See Chart
<b>Mechanical Characteristics:</b>				
Weight	.36 oz/ft (33g/m)	0.34 oz/ft (31g/m)	0.75 oz/ft (70g/m)	0.73 oz/ft (68g/m)
Minimum Bend Radius inches (mm)	0.5" (12.7mm)	0.5" (12.7mm)	0.75" (19mm)	0.75" (19mm)
<b>Environmental Characteristics:</b>				
Operating Temperature Range <sup>1</sup>	-65°C to +165°C	-65°C to +165°C	-65°C to +165°C	-65°C to +165°C
RoHS (2002/95/EC)	Available on request	Available on request	Available on request	Available on request
<sup>1</sup> +200°C available on request				
VSWR for assemblies with two straight 2.9 mm connectors	1.35 : 1 to 40 GHz	1.35 : 1 to 40 GHz	1.35 : 1 to 40 GHz	1.35 : 1 to 40 GHz



# 150 Series (Continued)

## Attenuation (max)

GHz	1501/1503			1506/1508		
	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.04	0.07	0.23	600	0.08	0.26	536
1	0.11	0.36	500	0.12	0.41	446
2	0.16	0.51	370	0.18	0.58	330
4	0.22	0.73	260	0.25	0.82	232
6	0.27	0.90	210	0.31	1.01	188
8	0.32	1.04	180	0.36	1.18	161
10	0.36	1.17	160	0.40	1.32	143
12	0.39	1.29	150	0.44	1.45	134
14	0.43	1.40	140	0.48	1.58	125
16	0.46	1.50	125	0.52	1.69	112
18	0.49	1.60	120	0.55	1.80	107
20	0.51	1.69	115	0.58	1.91	103
22	0.54	1.78	110	0.61	2.01	98
24	0.57	1.86	105	0.64	2.10	94
26	0.59	1.94	100	0.67	2.20	89
28	0.62	2.02	99	0.70	2.29	88
30	0.64	2.10	97	0.72	2.37	87
32	0.66	2.17	95	0.75	2.46	85
34	0.69	2.25	90	0.77	2.54	80
36	0.71	2.32	85	0.80	2.62	76
38	0.73	2.39	80	0.82	2.70	71
40	0.75	2.46	75	0.85	2.78	67

