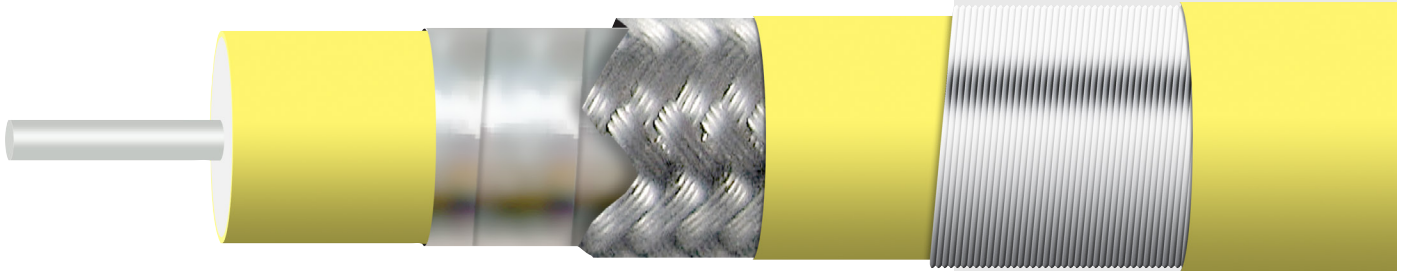




150 Series Operating Up to 43 GHz



Center Conductor Silver Plated Copper 1501/1503 Solid 1506/1508 Stranded	Dielectric EPTFE	Foil Silver Plated Copper	Braid Silver Plated Copper	Inner Jacket FEP (0.144", 3.65mm)	Serving SCCS Armor	Outer Jacket FEP (0.201", 5.11mm)
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	1501	1506	1503	1508
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Electrical Characteristics	1501	1506	1503	1508
Impedance	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω
Cut Off Frequency (cable only, max)	43 GHz	42 GHz	43 GHz	42 GHz
Capacitance	25.4 pF/ft.	25.4 pF/ft.	25.4 pF/ft.	25.4 pF/ft.
Velocity of Propagation	80%	80%	80%	80%
Time Delay	1.27 ns/ft.	1.27 ns/ft.	1.27 ns/ft.	1.27 ns/ft.
Shielding Effectiveness up to 18GHz	>100 dB	>100 dB	>100 dB	>100 dB
Cable Attenuation Factors (K1, K2) *	10.7, 0.182	12.3, 0.182	10.7, 0.182	12.3, 0.182
Power Handling	See Chart	See Chart	See Chart	See Chart

Mechanical Characteristics:	1501	1506	1503	1508
Weight	.36 oz/ft (33g/m)	0.34 oz/ft (31g/m)	0.75 oz/ft (70g/m)	0.73 oz/ft (68g/m)
Static Bend Radius	0.5" (12.7mm)	0.31" (8mm)	0.75" (19.1mm)	0.375" (9.5mm)
Dynamic Bend Radius	1.25" (32mm)	1.0" (25.4mm)	1.75" (44.5mm)	1.0" (25.4mm)

Environmental Characteristics:	1501	1506	1503	1508
Operating Temperature Range ¹	-65°C to +200°C	-65°C to +200°C	-65°C to +200°C	-65°C to +200°C
RoHS 3 (EU 2015/863)	Yes	Yes	Yes	Yes

¹ Standard cable assembly temperature range is -55°C to +165°C, -65°C to +200°C available for select configurations

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
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*Attenuation = $K_1\sqrt{f} + K_2f$ (cable only)



150 Series

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
0.5	0.08	0.25	727	0.09	0.29	650
1	0.11	0.36	500	0.12	0.41	446
2	0.15	0.51	370	0.18	0.58	330
4	0.22	0.73	260	0.25	0.83	232
6	0.27	0.90	210	0.31	1.02	188
8	0.32	1.04	180	0.36	1.19	161
10	0.36	1.17	160	0.41	1.34	143
12	0.39	1.29	150	0.45	1.47	134
14	0.43	1.40	140	0.49	1.59	125
16	0.46	1.50	125	0.52	1.71	112
18	0.49	1.60	120	0.55	1.82	107
20	0.51	1.69	115	0.59	1.92	103
22	0.54	1.78	110	0.62	2.02	98
24	0.57	1.86	105	0.65	2.12	94
26	0.59	1.94	100	0.67	2.21	89
28	0.62	2.02	99	0.70	2.30	88
30	0.64	2.10	97	0.73	2.39	87
32	0.66	2.17	95	0.75	2.47	85
34	0.69	2.25	90	0.78	2.56	80
36	0.71	2.32	85	0.80	2.64	76
38	0.73	2.39	80	0.83	2.71	71
40	0.75	2.46	75	0.85	2.79	67

