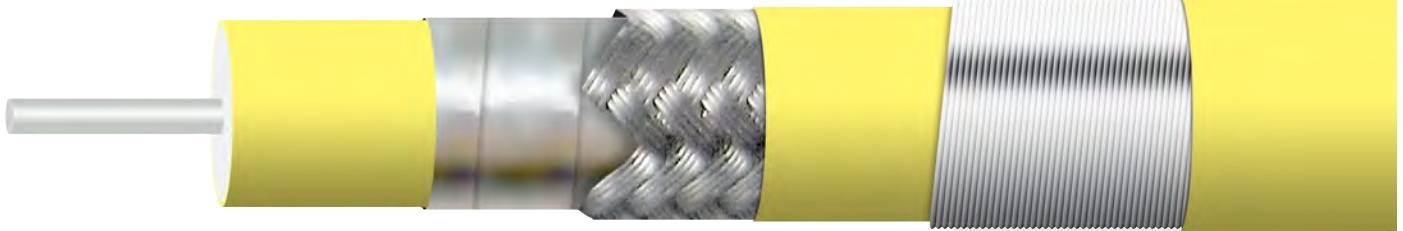




157 Series Operating Up to 40 GHz



Center Conductor Silver Plated Copper	Dielectric EPTFE	Foil Silver Plated Copper	Braid Silver Plated Copper	Inner Jacket FEP (0.155", 3.94mm)	Serving SCCS Armor	Outer Jacket FEP (0.213", 5.41mm)
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1571

1573

Electrical Characteristics

Impedance	50 +/- 2Ω	50 +/- 2Ω
Cut Off Frequency (cable only, max)	41.5 GHz	41.5 GHz
Capacitance	24.5 pF/ft.	24.5 pF/ft.
Velocity of Propagation	83%	83%
Time Delay	1.22 ns/ft.	1.22 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB	>90 dB
Cable Attenuation Factors (K1, K2) *	9.3, 0.18	9.3, 0.18
Power Handling	See Chart	See Chart

Mechanical Characteristics:

Weight	.42 oz/ft (38.5g/m)	.96oz/ft (89.3 g/m)
Static Bend Radius	0.5" (12.7mm)	0.75" (19.05mm)
Dynamic Bend Radius	1.25" (31.75mm)	1.5" (38.10mm)

Environmental Characteristics:

Operating Temperature Range ¹	-65°C to +200°C	-65°C to +200°C
RoHS 3 (EU 2015/863)	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 connectors 1.35:1 to 40 GHz 1.35:1 to 40 GHz

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



157 Series

Attenuation (max)

1571/1573			
GHz	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.5	0.07	0.22	727
1	0.09	0.31	500
2	0.14	0.44	370
4	0.19	0.63	260
6	0.24	0.78	210
8	0.28	0.91	180
10	0.31	1.02	160
12	0.34	1.13	150
14	0.37	1.22	140
16	0.40	1.31	125
18	0.43	1.40	120
20	0.45	1.48	115
22	0.48	1.56	110
24	0.50	1.64	105
26	0.52	1.71	100
28	0.54	1.78	99
30	0.56	1.85	97
32	0.58	1.91	95
34	0.60	1.98	90
36	0.62	2.04	85
38	0.64	2.10	80
40	0.66	2.16	75

