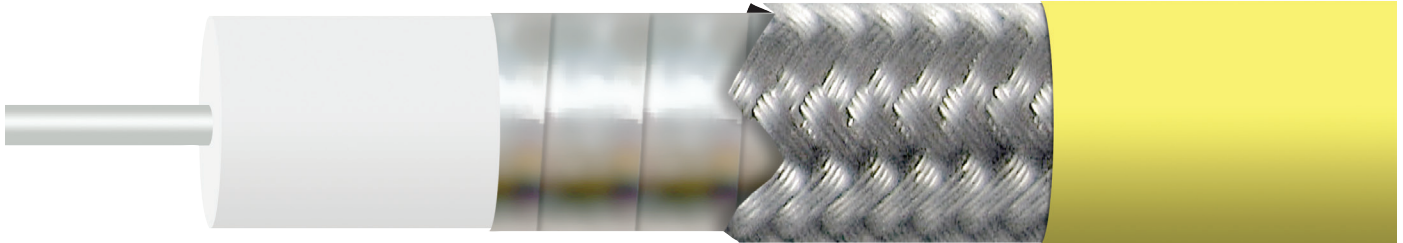




## 125 Series Operating Up to 70 GHz



**Center Conductor**  
Silver Plated  
Copper

**Dielectric**  
EPTFE

**Foil**  
Silver Plated  
Copper

**Braid**  
Silver Plated  
Copper

**Outer Jacket**  
FEP  
(0.099", 2.51mm)

### 1251

#### Electrical Characteristics

Impedance	50 +/- 2Ω
Cut Off Frequency (cable only, max)	70 GHz
Capacitance	26.8 pF/ft.
Velocity of Propagation	76%
Time Delay	1.34 ns/ft.
Shielding Effectiveness up to 18GHz	>100 dB
Cable Attenuation Factors (K1, K2) *	K1 = 19.4, K2 = 0.58
Power Handling	See Chart

#### Mechanical Characteristics:

Weight	.19 oz/ft (17.9 g/m)
Static Bend Radius	0.25" (6.35mm)
Dynamic Bend Radius	0.625" (15.87mm)

#### Environmental Characteristics:

Operating Temperature Range <sup>1</sup>	-65°C to +200°C
RoHS 3 (EU 2015/863)	Yes

<sup>1</sup> 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

\*Attenuation =  $K1\sqrt{f} + K2f$  (cable only)



# 125 Series

## Attenuation (max)

1251

GHz	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.5	0.14	0.46	410
1	0.20	0.66	220
2	0.29	0.94	200
4	0.41	1.35	120
6	0.51	1.67	85
8	0.60	1.95	75
10	0.67	2.20	70
12	0.74	2.43	65
14	0.81	2.65	60
16	0.87	2.85	55
18	0.93	3.04	50
20	0.98	3.23	45
22	1.04	3.40	43
24	1.09	3.57	42
26	1.14	3.74	40
28	1.19	3.90	39
30	1.24	4.06	38
32	1.28	4.21	37
34	1.33	4.36	36
36	1.37	4.50	35
38	1.42	4.65	32
40	1.46	4.79	30
42	1.50	4.92	29
44	1.54	5.06	28
46	1.58	5.19	27
48	1.62	5.32	26
50	1.66	5.45	25
52	1.70	5.58	25
54	1.74	5.71	25
56	1.78	5.83	23
58	1.81	5.95	23
60	1.85	6.07	22
62	1.89	6.19	22
64	1.92	6.31	22
65	1.96	6.43	21
68	1.99	6.54	20
70	2.03	6.66	19

