



## RF250 Series Operating Up to 18 GHz



**Center Conductor**  
Silver Plated  
Copper

**Dielectric**  
PTFE

**Foil**  
Silver Plated  
Copper

**Braid**  
Tin Plated  
Copper  
(5.84mm 0.230")

### RF250

#### Electrical Characteristics

Impedance	50 +/- 2Ω
Cut Off Frequency (cable only, max)	18 GHz
Capacitance	24 pF/ft.
Velocity of Propagation	71%
Time Delay	1.22 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB
Power Handling	See Chart

#### Mechanical Characteristics:

Weight	1.0 oz/ft (97g/m)
Minimum Bend Radius inches (mm)	.375" (9.5mm)

#### Environmental Characteristics:

Operating Temperature Range <sup>1</sup>	-65°C to +165°C
RoHS (2002/95/EC)	Available on request
VSWR for assemblies with two straight connectors	1.35:1 to 18 GHz

**FEP Jacket available – Cable part number TPRFEP250**



# RF250 Series (Continued)

## Insertion Loss

GHz	RF250		
	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.04	0.03	0.10	1300
1	0.07	0.23	1100
2	0.11	0.36	800
4	0.17	0.56	520
6	0.22	0.72	450
8	0.26	0.85	380
10	0.29	0.95	350
12	0.34	1.12	310
14	0.37	1.21	300
16	0.41	1.34	280
18	0.44	1.44	270

