



RF141 Series Operating Up to 34 GHz



Center Conductor
Silver Plated
Copper

Dielectric
PTFE

Foil
Silver Plated
Copper

Braid
Tin Plated
Copper
(3.58mm 0.141")

RF141

Electrical Characteristics

Impedance	50 +/- 2Ω
Cut Off Frequency (cable only, max)	34 GHz
Capacitance	29 pF/ft.
Velocity of Propagation	71%
Time Delay	1.40 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB
Power Handling	See Chart

Mechanical Characteristics:

Weight	.402 oz/ft (37g/m)
Minimum Bend Radius inches (mm)	.250" (6.4mm)

Environmental Characteristics:

Operating Temperature Range ¹	-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 TPRFEP141



RF141 Series (Continued)

Insertion Loss

GHz	RF141		Power(W) @ 20°C @ Sea Level
	dB/ft.	dB/m	
0.04	0.07	0.22	700
1	0.11	0.36	500
2	0.16	0.53	350
4	0.24	0.78	240
6	0.30	0.99	190
8	0.36	1.18	160
10	0.41	1.36	150
12	0.46	1.52	140
14	0.51	1.68	130
16	0.56	1.83	120
18	0.60	1.97	110
20	0.64	2.11	100
22	0.68	2.25	90
24	0.73	2.38	80
26	0.77	2.51	70
28	0.80	2.64	60
30	0.84	2.76	50
32	0.88	2.89	40
34	0.92	3.01	30

