

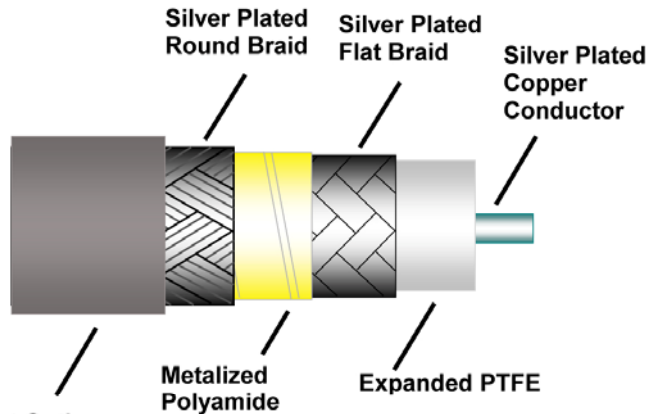
4 Series 4401-150

Electrical Properties (Cable Only)

Impedance (ohms)	50
Velocity of Propagation (%)	78%
Min. Shielding Effectiveness (dB)	90
Phase vs. Flexure	Figure 3
Phase vs. Temperature	Figure 4
Min. Breakdown Voltage (KV)	5
Capacitance (pf/ft)	26
Inductance (nH/ft)	66
Max Operating Freq (GHz)	50.0
Max Structural VSWR	1.20:1

Physical Properties (Cable Only)

Maximum Temperature (deg C)	-65 / +200
Recommended Temperature (deg C)	-65 / +165
Outdoor Jacket Option (in)	0.131
High Temp. Jacket Option (in)	0.122
Round Braid O.D. (in)	0.104
Helical Foil O.D. (in)	0.088
Flat Braid O.D. (in)	0.081
Dielectric O.D. (in)	0.075
Solid Center Conductor (in)	0.025
Inside Min. Bend Radius (in)	0.6
Flexure Life (3x min bend radius) <i>(for higher flex life consult factory)</i>	>10,000
Connector Retention (lbs)	>TBD
Axial Torque Resistance (lb-in)	>TBD
Weight (lbs/ft)	0.018
Crush Resistance (lbs/in)	>TBD
Kink Resistance (lbs)	>TBD



Jacket Options:

- High Temp, ETFE (-65 C / + 165 C)
- Outdoor, Polyurethane (-65 C/+85 C)

Attenuation (dB/100ft) @ 25 deg C

Frequency (GHz)	dB/100 ft	K Watts
0.5	11.61	0.95
1.0	16.60	0.65
3.0	29.54	0.38
6.0	42.86	0.26
12.0	62.80	0.18
18.0	78.96	0.14
26.0	97.60	0.12
32.0	110.24	0.11
40.0	125.87	0.10
50.0	144.00	0.08
K1	15.98	
K2	0.62	

(100 Series cables are constructed in accordance with MIL-DTL-17)

- Center Conductor:** Silver Plated Copper per ASTM B298
- Dielectric:** Type F per ASTM D4894 or D4895, Semisolid PTFE (proprietary)
- Primary Shield:** Silver Plated Copper per ASTM B298
- Second Shield:** High Temp, Aluminum Polyamide Foil
- Third Shield:** Silver Plated Copper per ASTM B298
- High Temp Jacket:** Type X per ASTM D3159, ETFE
[Flame Resistance & Smoke = UL94 V-0]
- Outdoor Jacket:** Type XII Polyurethane (optional)
[Zero Halogen, Flame Resistance & Smoke = UL94 V-0]

