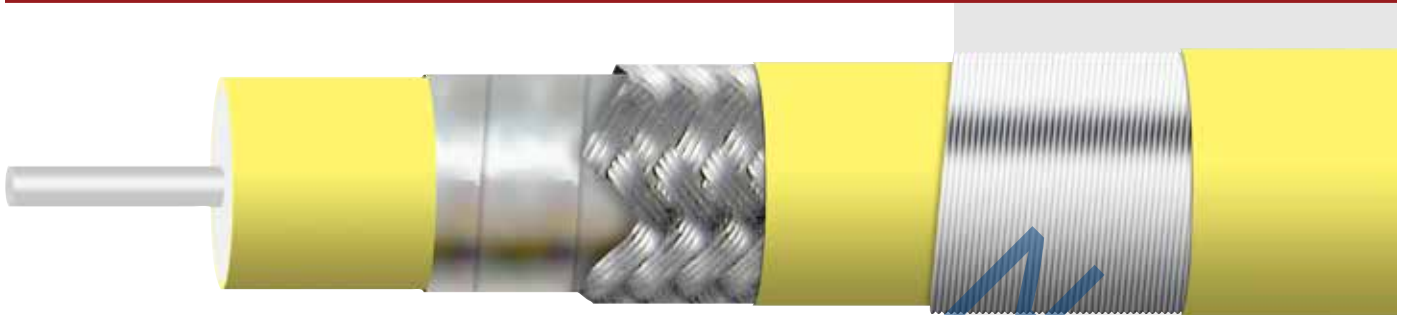




140 Series Operating Up to 50 GHz



Center Conductor	Dielectric	Foil	Braid	Outer Jacket	Serving	Outer Jacket
Silver Plated Copper 1401/1403 Solid 1406/1408 Stranded	EPTFE	Silver Plated Copper	Silver Plated Copper	FEP (3.30mm 0.130")	SCCS Armor	FEP (4.85mm 0.191")

	1401	1406	1403	1408
Electrical Characteristics				
Impedance	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω
Cut Off Frequency (cable only, max)	52 GHz	48.5 GHz	52 GHz	48.5 GHz
Capacitance	24 pF/ft.	25 pF/ft.	24 pF/ft.	25 pF/ft.
Velocity of Propagation	83%	83%	83%	83%
Time Delay	1.22 ns/ft.	1.22 ns/ft.	1.22 ns/ft.	1.22 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB	>90 dB	>90 dB	>90 dB
Power Handling	See Chart	See Chart	See Chart	See Chart
Mechanical Characteristics:				
Weight	.3 oz/ft (28g/m)	0.275 oz/ft (26g/m)	0.73 oz/ft (68g/m)	0.73 oz/ft (68g/m)
Minimum Bend Radius inches (mm)	0.25" (6.4mm)	0.25" (6.4mm)	0.25" (6.4mm)	0.25" (6.4mm)
Environmental Characteristics:				
Operating Temperature Range ¹	-65°C to +165°C	-65°C to +165°C	-65°C to +165°C	-65°C to +165°C
RoHS (2002/95/EC)	Available on request	Available on request	Available on request	Available on request
¹ +200°C available on request				
VSWR for assemblies with two straight 2.4 mm connectors	1.40 : 1 to 50 GHz	1.40 : 1 to 50 GHz	1.40 : 1 to 50 GHz	1.40 : 1 to 50 GHz



140 Series (Continued)

Attenuation (max)

GHz	1401/1403			1406/1408		
	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.04	0.075	0.25	550	0.08	0.28	491
1	0.12	0.39	450	0.13	0.43	402
2	0.17	0.55	300	0.19	0.62	268
4	0.24	0.80	225	0.27	0.90	201
6	0.30	0.99	175	0.34	1.11	156
8	0.35	1.16	150	0.40	1.30	134
10	0.40	1.32	140	0.45	1.47	125
12	0.44	1.46	120	0.50	1.63	107
14	0.48	1.59	110	0.54	1.78	98
16	0.52	1.72	105	0.59	1.92	94
18	0.56	1.83	100	0.63	2.05	89
20	0.59	1.95	95	0.67	2.18	85
22	0.63	2.06	90	0.70	2.30	80
24	0.66	2.16	85	0.74	2.42	76
26	0.69	2.27	80	0.77	2.54	71
28	0.72	2.37	75	0.81	2.65	67
30	0.75	2.46	73	0.84	2.76	65
32	0.78	2.56	71	0.87	2.87	63
34	0.81	2.65	70	0.91	2.97	63
36	0.84	2.74	68	0.94	3.07	61
38	0.86	2.83	65	0.97	3.17	58
40	0.89	2.92	60	1.00	3.27	54
42	0.92	3.01	58	1.03	3.37	52
44	0.94	3.09	56	1.06	3.47	50
46	0.97	3.18	54	1.09	3.56	48
48	0.99	3.26	52	1.11	3.65	46
50	1.02	3.34	50	N/A	N/A	N/A

