



160 Series Operating Up to 32 GHz

Center Conductor Silver Plated Copper 1601/1603 Solid 1606/1608 Stranded	Dielectric PTFE	Foil Silver Plated Copper	Braid Silver Plated Copper	Outer Jacket FEP (4.8mm 0.160")	Serving SCCS Armor	Outer Jacket FEP (5.8mm 0.229")

	1601	1606	1603	1608
Electrical Characteristics				
Impedance	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω
Cut Off Frequency (cable only, max)	34 GHz	34 GHz	34 GHz	34 GHz
Capacitance	29 pF/ft.	22 pF/ft.	29 pF/ft.	22 pF/ft.
Velocity of Propagation	71%	71%	71%	71%
Time Delay	1.4 ns/ft.	1.4 ns/ft.	1.4 ns/ft.	1.4 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	.48 oz/ft (44g/m)	0.5 oz/ft (13g/m)	0.98 oz/ft (92g/m)	0.98 oz/ft (92g/m)
Minimum Bend Radius inches (mm)	0.325" (8.3mm)	0.325" (8.3mm)	0.375" (9.5mm)	0.375" (9.5mm)
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 connectors	1.35:1 to 18 GHz	1.35:1 to 18 GHz	1.35:1 to 18 GHz	1.35:1 to 18 GHz
VSWR for assemblies with one straight and one right angle connector	1.40:1 to 18 GHz	1.40:1 to 18 GHz	1.40:1 to 18 GHz	1.40:1 to 18 GHz
VSWR for assemblies with two right angle connectors	1.45:1 to 18 GHz	1.45:1 to 18 GHz	1.45:1 to 18 GHz	1.45:1 to 18 GHz



160 Series (Continued)

Attenuation (max)

GHz	1601/1603			1606/1608		
	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.04	0.07	0.22	700	0.08	0.25	625
1	0.11	0.36	500	0.12	0.40	446
2	0.16	0.53	350	0.18	0.59	313
4	0.24	0.78	240	0.27	0.88	214
6	0.30	0.99	190	0.34	1.11	170
8	0.36	1.18	160	0.40	1.32	143
10	0.41	1.36	150	0.46	1.52	134
12	0.46	1.52	140	0.52	1.70	125
14	0.51	1.68	130	0.57	1.88	116
16	0.56	1.83	120	0.62	2.04	107
18	0.60	1.97	110	0.67	2.21	98
20	0.64	2.11	100	0.72	2.36	89
22	0.68	2.25	90	0.77	2.52	80
24	0.73	2.38	80	0.81	2.66	71
26	0.77	2.51	70	0.86	2.81	63
28	0.80	2.64	60	0.90	2.95	54
30	0.84	2.76	50	0.94	3.09	45
32	0.88	2.89	40	0.99	3.23	36

