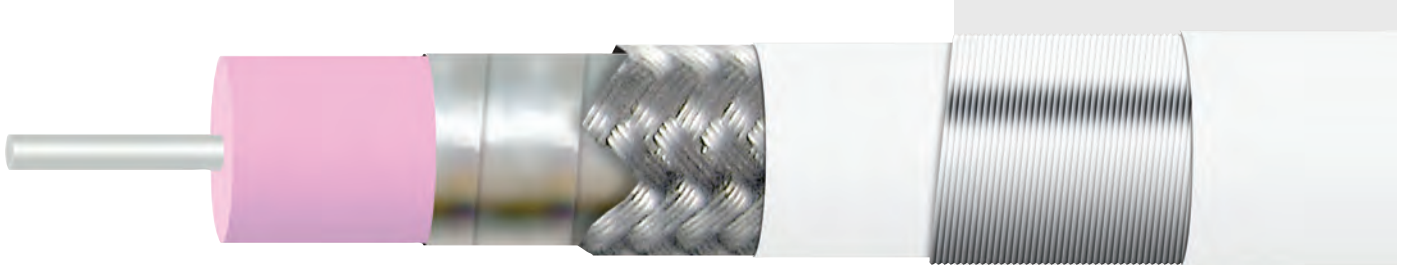




160 Series Operating Up to 34 GHz



Center Conductor	Dielectric	Foil	Braid	Inner Jacket	Serving	Outer Jacket
Silver Plated Copper 1601/1603 Solid 1606/1608 Stranded	PTFE	Silver Plated Copper	Silver Plated Copper	FEP (0.160", 4.8mm)	SCCS Armor	FEP (0.218", 5.5mm)

	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	28.6 pF/ft.	28.6 pF/ft.	28.6 pF/ft.	28.6 pF/ft.
Velocity of Propagation	71%	71%	71%	71%
Time Delay	1.43 ns/ft.	1.43 ns/ft.	1.43 ns/ft.	1.43 ns/ft.
Shielding Effectiveness up to 32GHz	>90 dB	>90 dB	>90 dB	>90 dB
Cable Attenuation Factors (K1, K2) *	10.9, 0.89	12.2, 0.89	10.9, 0.89	12.2, 0.89
Power Handling	See Chart	See Chart	See Chart	See Chart

Mechanical Characteristics:				
Weight	.5 oz/ft (46 g/m)	.5 oz/ft (46 g/m)	1.0 oz/ft (97 g/m)	.98 oz/ft (92 g/m)
Static Bend Radius	0.375" (9.52 mm)	0.375" (9.52 mm)	0.675" (17.14mm)	0.625" (15.87mm)
Dynamic Bend Radius	1.0" (25.4mm)	1.0" (25.4mm)	1.5" (38.1mm)	1.5" (38.1 mm)

Environmental Characteristics:				
Operating Temperature Range ¹	-65°C to +200°C	-65°C to +200°C	-65°C to +200°C	-65°C to +200°C
RoHS 3 (EU 2015/863)	Yes	Yes	Yes	Yes

¹ Standard cable assembly temperature range is -55°C to +165°C, -65°C to +200°C available for select configurations

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

*Attenuation = $K_1\sqrt{f} + K_2f$ (cable only)

1601 is a flexible replacement for RG402 cable



160 Series

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
0.5	0.08	0.27	707	0.09	0.30	632
1	0.12	0.39	500	0.13	0.43	446
2	0.17	0.56	350	0.19	0.62	313
4	0.25	0.83	240	0.28	0.92	214
6	0.32	1.05	190	0.35	1.16	170
8	0.38	1.25	160	0.42	1.37	143
10	0.43	1.42	150	0.47	1.56	134
12	0.48	1.59	140	0.53	1.74	125
14	0.53	1.75	130	0.58	1.91	116
16	0.58	1.90	120	0.63	2.07	107
18	0.62	2.04	110	0.68	2.22	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

