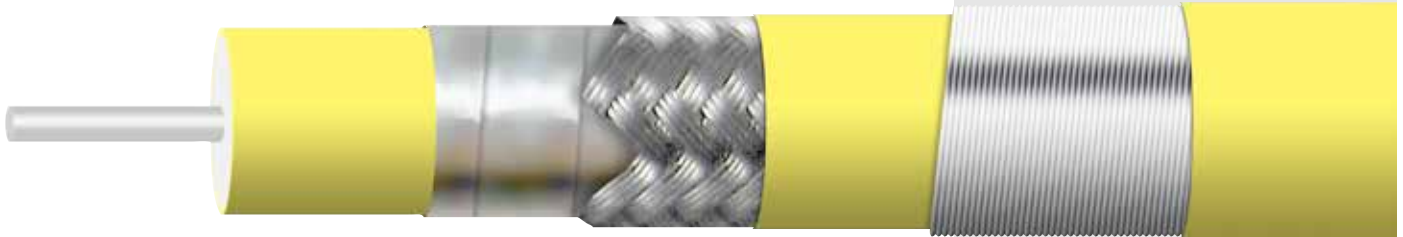




170 Series Operating Up to 38.5 GHz



Center Conductor
Silver Plated Copper

Dielectric
EPTFE

Foil
Silver Plated
Copper

Braid
Silver Plated
Copper

Outer Jacket
FEP
(4.3mm 0.170")

Serving
SCCS Armor

Outer Jacket
FEP
(6.09mm 0.240")

1701

1703

Electrical Characteristics

Impedance	50 +/- 2Ω	50 +/- 2Ω
Cut Off Frequency (cable only, max)	38 GHz	38 GHz
Capacitance	24 pF/ft.	24 pF/ft.
Velocity of Propagation	83%	83%
Time Delay	1.22 ns/ft.	1.22 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB	>90 dB
Power Handling	See Chart	See Chart

Mechanical Characteristics:

Weight	.44 oz/ft (41g/m)	1.50 oz/ft (111g/m)
Minimum Bend Radius inches (mm)	0.25" (6.5mm)	0.5" (13mm)

Environmental Characteristics:

Operating Temperature Range ¹	-65°C to +165°C	-65°C to +165°C
RoHS (2002/95/EC)	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
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170 Series (Continued)

Attenuation (max)

GHz	1701/1703		Power(W) @ 20°C @ Sea Level
	dB/ft.	dB/m	
0.04	0.10	0.32	850
1	0.13	0.43	680
2	0.18	0.59	467
4	0.25	0.86	340
6	0.26	0.82	270
8	0.29	0.95	245
10	0.31	1.03	210
12	0.34	1.13	190
14	0.36	1.13	178
16	0.38	1.17	170
18	0.40	1.24	165
20	0.42	1.31	160
22	0.44	1.63	157
24	0.46	1.42	153
26	0.48	1.49	148
28	0.50	1.56	144
30	0.52	1.63	136
32	0.53	1.73	131
34	0.55	1.79	127
36	0.56	1.84	125
38	0.57	1.88	120
38.5	0.61	2.00	119

