



Mil-C-17 RG Coaxial Cable Data Sheet

Improved Cable Performance from Lighter-Weight RG Coaxial Cables

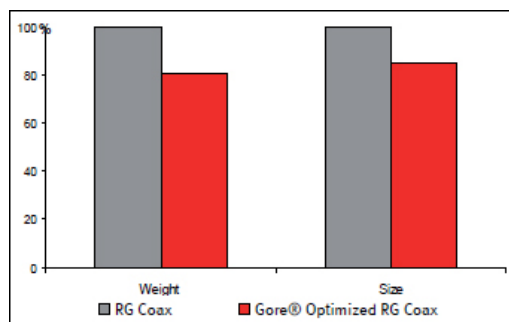
Suitable for use in commercial and military aircraft, GORE® RG Coaxial Cables maintain excellent signal integrity and are over 25 percent lighter with a more than 15 percent smaller diameter when compared to standard RG coaxial cables. The excellent flexibility and tight bend radius of these cables make them easier to install, particularly when retrofitting cables in the tight spaces surrounding aircraft electronic systems.

Engineered to meet the stringent requirements of MIL-T-81790 and EN 3475-503, GORE® RG Coaxial Cables withstand the harsh environments of the aerospace industry. In addition, the 50 ohm and 75 ohm cables are optimized to exceed the electrical requirements of MIL-C-17G.

The RG Coaxial Cables from Gore meets the environmental conditions required of standard RG Coax cables while significantly reducing the cable weight and cable size with the use of an engineered fluoropolymer jacket.

Typical Applications

- Navigation systems
- Communication systems
- Box-to antenna communications
- In-flight entertainment



Realize the Benefits of GORE® RG Coaxial Cables

- ❑ Reduced flight mass due to lighter weight construction
- ❑ Longer product life from excellent abrasion resistance
- ❑ Improved reliability with a higher operating temperature range
- ❑ Easier installation because of smaller diameter, tighter bend radius, and more flexibility
- ❑ Easier retrofit with no special connectors required
- ❑ Superior sales and technical support from Gore's worldwide engineering team

Mechanical Properties

Property	RG179 Standard	RG179 GORE	RG316 Standard	RG316 GORE
Cable nom. diameter	2.54 mm 0.100 inch	2.18 mm 0.086 inch	2.49 mm 0.098 inch	2.07 mm 0.082 inch
Weight	160 g/m 10.8 lbs/1000ft	12.4 g/m 7.96 lbs/1000ft	18.0 g/m 12.2 lbs/1000ft	12.7 g/m 8.13 lbs/1000ft
Jacket material	FEP	Engineered Fluoropolymer	FEP	Engineered Fluoropolymer
Operating temperature range	-65°C up to 150°C -85F up to 302F	-65°C up to 150°C -85F up to 302F	-65°C up to 150°C -85F up to 302F	-65°C up to 150°C -85F up to 302F

Electrical Properties

Property	RG179 Standard	RG179 GORE	RG316 Standard	RG316 GORE
Max. Voltage	1200 V	1200 V	1200 V	1200 V
Capacitance	63.6 pF/m 19.4 pF/ft	63.6 pF/m 19.4 pF/ft	96.43 pF/m 29.4 pF/ft	96.43 pF/m 29.4 pF/ft
Impedance	75 +3/-3 Ω	75 +3/-3 Ω	50 +2/-2 Ω	50 +2/-2 Ω
Attenuation typical/max @ 100 MHz min/max @ 400 MHz min/max @ 1.0 GHz min/max	dB/100feet 8.0/9.2 15.5/21.0 26.7/30.7	dB/100feet 8.0/9.2 15.5/21.0 26.7/30.7	dB/100feet 7.6/11.0 16.0/21.0 26.2/38.0	dB/100feet 7.6/11.0 16.0/21.0 26.2/38.0
Attenuation typical/max @ 100 MHz min/max @ 400 MHz min/max @ 1.0 GHz min/max	dB/30m 7.9/9.1 15.3/20.7 26.3/29.6	dB/30m 7.9/9.1 15.3/20.7 26.3/29.6	dB/30m 7.5/10.8 15.8/20.7 25.8/37.4	dB/30m 7.5/10.8 15.8/20.7 25.8/37.4

**Other RG Coaxial Cables are available - please ask us!*

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W. L. Gore & Associates, Inc.

North America 1 (800) 445-GORE (4673)	Europe +49 9144 6010 +44 1382 561511	International 1 (302) 292 5100	China: Beijing +86 10 5707 4999	China: Shanghai +86 21 5172 8299	China: Shenzhen +86 755 8359 8262
gore.com	Additional international phone numbers can be found at gore.com/phone	Japan +81 3 6746 2582	Korea +82 2 393 3411	Taiwan +886 2 2173 7799	Singapore +65 6 733 2882

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