



GORE® Coaxial Cables

Mil-C-17 RG Coaxial Cable

Improved Cable Performance from Lighter-Weight RG Coaxial Cables

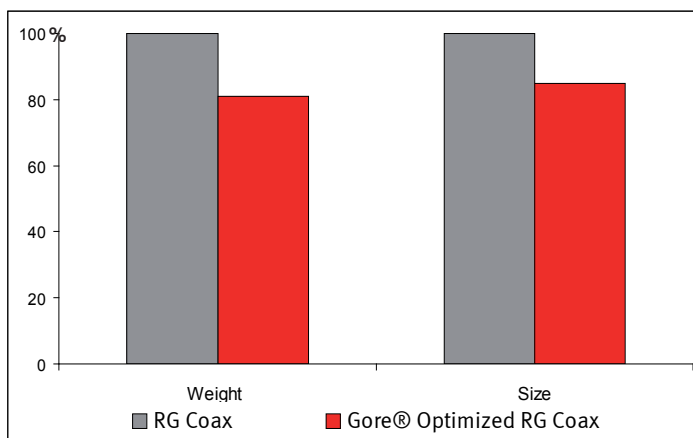
Suitable for use in commercial and military aircraft, GORE® RG Coaxial Cables maintain excellent signal integrity and are over 25 percent lighter with a more than 15 percent smaller diameter when compared to standard RG coaxial cables. The excellent flexibility and tight bend radius of these cables make 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 communication
- 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



GORE® RG Coaxial Cables

MECHANICAL PROPERTIES OF RG179/RG316

Property	RG179 Standard	GWN 2907 (RG179) GORE	RG316 Standard	GWN2908 (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	16.0 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 OF RG179/RG316

Property	RG179 Standard	GWN 2907 (RG179) GORE	RG316 Standard	GWN2908 (RG316) GORE
Max. voltage	1200 V	1200V	1200V	1200V
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 available - please ask us!*

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North America
1 (800) 445-GORE (4673)

Europe
+49 9144 6010
+44 1382 561511

International
1 (302) 292-5100

China: Beijing
+86 10 6510 2980

China: Shanghai
+86 21 6247 1999

China: Shenzhen
+86 755 8359 8262

gore.com

Additional international phone numbers can be found at gore.com/phone

Japan
+81 3 3570 8712

Korea
+82 2 393-3411

Taiwan
+886 2 8771 7799

Singapore
+65 6 733 2882

