



Surpassing RG Cable

Summary

Gore's standard offering includes several cables with performance surpassing those of similar RG construction. Gore's advanced cables offer up to 49% lower attenuation or outer diameter reductions of as much as 47% while preserving the highest electrical integrity. As a result, these cables will transmit over longer distances, have lower density and provide higher bandwidth than their RG counterparts.

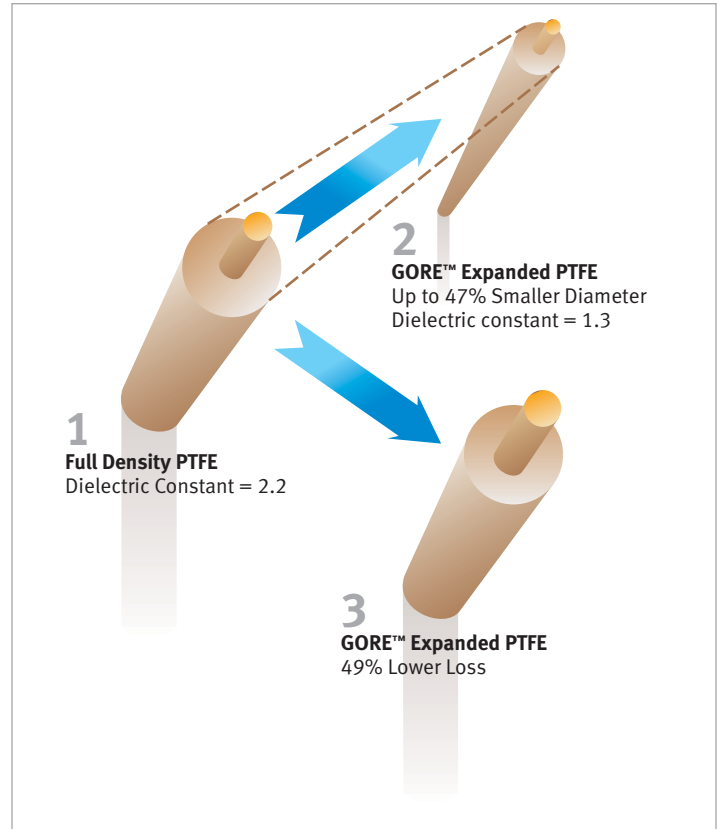
MATERIAL AND PROCESS BENEFITS

Gore's PTFE and ePTFE dielectric materials are engineered to meet the needs of the most advanced electrical and physical requirements and are capable of achieving the lowest dielectric constant and lightest weight of all commercially available insulations. Gore's highly evolved tape wrapping process yields a superior layer of dielectric compared to extrusion. These advanced PTFE dielectric materials and precision tape wrapping combine to produce a wide variety of standard and custom high-end cable solutions.

GORE™ ADVANCED RG ALTERNATIVES

GORE™ Advanced RG Alternative Coax Cables are shown against popular RG cables in the table on page 2. Gore also offers custom solutions to meet your unique requirements upon request.

GORE™ EXPANDED PTFE PRIMARY BENEFITS





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	Industry Standard	Gore Advanced Alternative	Industry Standard	Gore Advanced Alternative		Industry Standard	Gore Advanced Alternative		Industry Standard	Gore Advanced Alternative	
	RG 316	CXN 3461	RG 178	CXN 3462	CXN 3476	RG 59	CXN 3474	CXN 3475	RG 180	CXN 3473	CXN 3472
Impedance (W)	50	50	50	50	50	75	75	75	95	95	95
Conductor (AWG)	26 (7/34)	26 (7/34)	30 (7/38)	30 (7/38)	30 (7/38)	23 (1)	18 (1)	23 (1)	30 (7/38)	26 (7/34)	30 (7/38)
Attenuation at 400 MHz (dB/100ft)	16.4	20	29	29	29	10.5	5.4	9.1	17	9	14
Outer Diameter (in)	0.102	0.078	0.07	0.058	0.050	0.244	0.242	0.13	0.145	0.14	0.098
Dielectric Material	PTFE	ePTFE	PTFE	FEP	ePTFE	PE	ePTFE	ePTFE	PTFE	ePTFE	ePTFE
Weight (lb/1000ft)	12	6	5	5	3	34	40	17	19.8	14	7
Operating Temp (°C)	-55 to 200	-55 to 200	-55 to 200	-55 to 200	-55 to 200	-44 to 200	-55 to 200	-55 to 200	-55 to 200	-55 to 200	-55 to 200
Capacitance (pF/ft)	29	25	30	30	30	21	16	16	15	13	13
Velocity of Propagation	69	85	69	69	85	66	85	85	69	85	85
Shielding Material	SPC braid	SPC braid	SPC braid	SPC braid	SPC braid	Cu braid	SPC braid	SPC braid	SPC braid	SPC braid	SPC braid

Key Benefits

- 24% smaller
- Half the weight
- Higher V_p
- 19% smaller
- Hirose connector compatible
- 31% smaller
- 40% less weight
- 49% lower attenuation
- 29% higher V_p
- 47% smaller
- Half the weight
- Higher V_p
- 47% lower attenuation
- 29% less weight
- 23% higher V_p
- 32% smaller
- 65% less weight
- 18% lower attenuation
- 23% higher V_p

W. L. Gore & Associates, Inc.

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