



# GORE™ High Voltage Wire

## Summary

Manufacturers of high voltage electronic equipment have a variety of wire insulations from which to choose such as silicone rubber, polyvinylchloride (PVC), or polyethylene (PE). However, GORE™ High Voltage Wire insulated with GORE™ Corona Resistant PTFE offers best-in-class performance with respect to fluid and solvent resistance, resistance to stress cracking, operating temperature range, dielectric constant, flame resistance, and life under corona stress.

Gore manufactures high voltage wire and cable in a variety of voltage ratings. These cables have been designed for a minimum life of 10,000 hours at the maximum voltage rating. These ratings are based on the evaluation of test data and our extended experience under operating conditions.

If one of our standard designs does not meet your requirements, our engineers are ready to work with you in designing a solution.

### SUITABLE FOR:

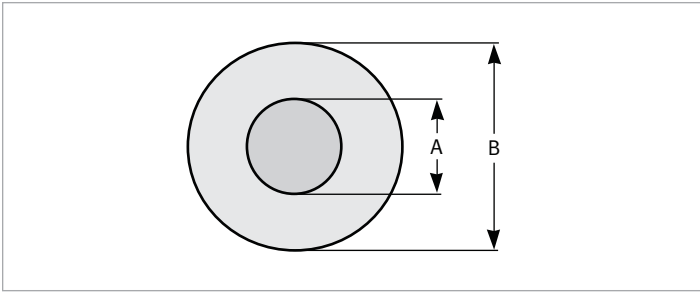
- Power supplies and amplifiers
- Traveling wave tubes
- High voltage routing



GORE™ High Voltage Wire...available in a variety of voltage ratings.

### PROPERTIES OF GORE™ HIGH VOLTAGE WIRE

Construction	A silver-plated copper conductor insulated with overlapping tapes of GORE™ Corona Resistant PTFE (CR-PTFE), and sintered into a homogeneous insulation.
Temperature rating	From cryogenic to 180°C continuous use temperature
Conductors	Silver-plated copper conductors are standard. Other conductor materials are also available.
Color Coding	Solid colors are standard. Striping is available at slight additional cost.
Voltage rating	Voltage rating is a function of conductor size and insulation wall thickness. (See table on page 2) Voltage ratings are specified at 60 Hz and sea level atmospheric pressure.
Flammability	Non-flammable
Electro-mechanical stress cracking	Excellent
Chemical-mechanical stress cracking	Excellent



**GORE™ HIGH VOLTAGE WIRE PART NUMBERS – 4000AC/9000DC**

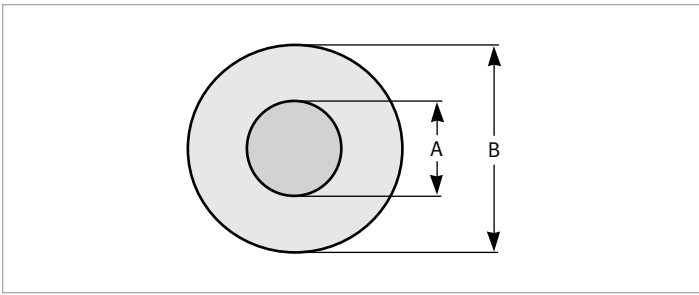
Gore Part Number	AWG (Stranding)	Cond. Dia. "A"	Insul. Wall Thick.	Outside Dia. "B" Min.	Voltage Rating (AC/DC)
F01A010	20 (7/28)	0.038"	0.020"	0.078"	4000/9000
F01A020	20 (19/32)	0.040"	0.020"	0.080"	4000/9000
F01A030	22 (7/30)	0.030"	0.020"	0.070"	4000/9000
F01A040	22 (19/34)	0.032"	0.020"	0.072"	4000/9000
F01A050	24 (7/32)	0.024"	0.020"	0.064"	4000/9000
F01A060	24 (19/36)	0.025"	0.020"	0.065"	4000/9000
F01A070	26 (7/34)	0.019"	0.020"	0.059"	4000/9000
F01A080	26 (19/38)	0.020"	0.020"	0.060"	4000/9000

**GORE™ HIGH VOLTAGE WIRE PART NUMBERS – 6000AC/13000DC**

Gore Part Number	AWG (Stranding)	Cond. Dia. "A"	Insul. Wall Thick.	Outside Dia. "B" Min.	Voltage Rating (AC/DC)
F01B010	14 (7/22)	0.076"	0.025"	0.126"	6000/13000
F01B020	14 (19/27)	0.071"	0.025"	0.121"	6000/13000
F01B030	16 (7/24)	0.060"	0.025"	0.110"	6000/13000
F01B040	16 (19/29)	0.057"	0.025"	0.107"	6000/13000
F01B050	18 (7/26)	0.048"	0.025"	0.098"	6000/13000
F01B060	18 (19/30)	0.050"	0.025"	0.100"	6000/13000
F01B070	20 (7/28)	0.038"	0.030"	0.098"	6000/13000
F01B080	20 (19/32)	0.040"	0.030"	0.100"	6000/13000
F01B090	22 (7/30)	0.030"	0.030"	0.090"	6000/13000
F01B100	22 (19/34)	0.032"	0.030"	0.092"	6000/13000
F01B110	24 (7/32)	0.024"	0.035"	0.094"	6000/13000
F01B120	24 (19/36)	0.025"	0.035"	0.095"	6000/13000

**GORE™ HIGH VOLTAGE WIRE PART NUMBERS – 8000AC/18000DC**

Gore Part Number	AWG (Stranding)	Cond. Dia. "A"	Insul. Wall Thick.	Outside Dia. "B" Min.	Voltage Rating (AC/DC)
F02A010	12 (7/21)	0.085"	0.030"	0.145"	8000/18000
F02A020	12 (19/25)	0.090"	0.030"	0.150"	8000/18000
F02A030	14 (7/22)	0.076"	0.035"	0.146"	8000/18000
F02A040	14 (19/27)	0.071"	0.035"	0.141"	8000/18000
F02A050	16 (7/24)	0.060"	0.035"	0.130"	8000/18000
F02A060	16 (19/29)	0.057"	0.035"	0.127"	8000/18000
F02A070	18 (7/26)	0.048"	0.040"	0.128"	8000/18000
F02A080	18 (19/30)	0.050"	0.040"	0.130"	8000/18000
F02A090	20 (7/28)	0.038"	0.040"	0.118"	8000/18000
F02A100	20 (19/32)	0.040"	0.040"	0.120"	8000/18000
F02A110	22 (7/30)	0.030"	0.045"	0.120"	8000/18000
F02A120	22 (19/34)	0.032"	0.045"	0.122"	8000/18000
F02A130	24 (7/32)	0.024"	0.050"	0.124"	8000/18000
F02A140	24 (19/36)	0.025"	0.050"	0.125"	8000/18000



**GORE™ HIGH VOLTAGE WIRE PART NUMBERS – 10000AC/22000DC**

Gore Part Number	AWG (Stranding)	Cond. Dia. "A"	Insul. Wall Thick.	Outside Dia. "B" Min.	Voltage Rating (AC/DC)
F02B010	12 (7/21)	0.085"	0.040"	0.165"	10000/22000
F02B020	12 (19/25)	0.090"	0.040"	0.170"	10000/22000
F02B030	14 (7/22)	0.076"	0.045"	0.166"	10000/22000
F02B040	14 (19/27)	0.071"	0.045"	0.161"	10000/22000
F02B050	16 (7/24)	0.060"	0.050"	0.160"	10000/22000
F02B060	16 (19/29)	0.057"	0.050"	0.157"	10000/22000
F02B070	18 (7/26)	0.048"	0.050"	0.148"	10000/22000
F02B080	18 (19/30)	0.050"	0.050"	0.150"	10000/22000
F02B090	20 (7/28)	0.038"	0.055"	0.148"	10000/22000
F02B100	20 (19/32)	0.040"	0.055"	0.150"	10000/22000
F02B110	22 (7/30)	0.030"	0.060"	0.150"	10000/22000
F02B120	22 (19/34)	0.032"	0.060"	0.152"	10000/22000

**GORE™ HIGH VOLTAGE WIRE PART NUMBERS – 12000AC/27000DC**

Gore Part Number	AWG (Stranding)	Cond. Dia. "A"	Insul. Wall Thick.	Outside Dia. "B" Min.	Voltage Rating (AC/DC)
F03A010	10 (19/22)	0.126"	0.045"	0.216"	12000/27000
F03A020	10 (37/26)	0.111"	0.045"	0.201"	12000/27000
F03A030	12 (7/21)	0.085"	0.050"	0.185"	12000/27000
F03A040	12 (19/25)	0.090"	0.050"	0.190"	12000/27000
F03A050	14 (7/22)	0.076"	0.055"	0.186"	12000/27000
F03A060	14 (19/27)	0.071"	0.055"	0.181"	12000/27000
F03A070	16 (7/24)	0.060"	0.060"	0.180"	12000/27000
F03A080	16 (19/29)	0.057"	0.060"	0.177"	12000/27000
F03A090	18 (7/26)	0.048"	0.065"	0.178"	12000/27000
F03A100	18 (19/30)	0.050"	0.065"	0.180"	12000/27000

**GORE™ HIGH VOLTAGE WIRE PART NUMBERS – 14000AC/31500DC**

Gore Part Number	AWG (Stranding)	Cond. Dia. "A"	Insul. Wall Thick.	Outside Dia. "B" Min.	Voltage Rating (AC/DC)
F03B010	10 (19/22)	0.126"	0.055"	0.236"	14000/31500
F03B020	10 (37/26)	0.111"	0.055"	0.221"	14000/31500
F03B030	12 (7/21)	0.085"	0.060"	0.205"	14000/31500
F03B040	12 (19/25)	0.090"	0.060"	0.210"	14000/31500
F03B050	14 (7/22)	0.076"	0.065"	0.206"	14000/31500
F03B060	14 (19/27)	0.071"	0.065"	0.201"	14000/31500

**GORE™ HIGH VOLTAGE WIRE PART NUMBERS – 16000AC/36000DC**

Gore Part Number	AWG (Stranding)	Cond. Dia. "A"	Insul. Wall Thick.	Outside Dia. "B" Min.	Voltage Rating (AC/DC)
F04A010	10 (19/22)	0.126"	0.065"	0.256"	16000/36000
F04A020	10 (37/26)	0.111"	0.065"	0.241"	16000/36000



# GORE™ High Voltage Wire

---

## W. L. Gore & Associates, Inc.

GORE and designs are trademarks of W. L. Gore & Associates, Inc. ©2006 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 6510 2980

**China: Shanghai**  
+86 21 6247 1999

**China: Shenzhen**  
+86 755 8359 8262

**gore.com**

More international phone numbers can be found at [gore.com/phone](http://gore.com/phone)

**Japan**  
+81 33 570 8712

**Korea**  
+82 2 393-3411

**Taiwan**  
+886 2 8771 7799

**Singapore**  
+65 6 733 2882

