



# GORE™ PTFE

HOOK-UP WIRE

## PTFE Hook-up Wire

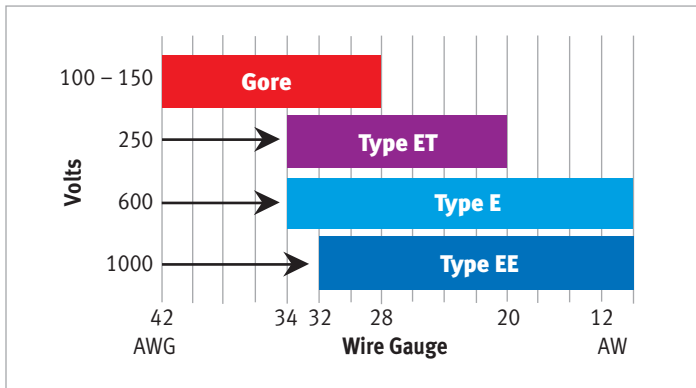
### Summary

Gore manufactures a variety of standard and custom PTFE insulated wire for any hook-up application. Standard products meet popular military standards. Custom versions can meet mil specifications while offering reduced diameter and weight.

As the industry's only vertically integrated supplier, Gore's proprietary PTFE tape wrap material is produced free of pinholes and with the highest uniformity, making us the leader in high performance hook-up wire.

- Type ET: MIL-W-16878/20, 250 Volts
- Type E: MIL-W-16878/21, 600 Volts
- Type EE: MIL-W-16878/22, 1000 Volts

Gore extends the mil standard series into a subminiature range of products as small as 42 AWG.



All varieties benefit from Gore's 40 years of vertical integration of fluoropolymer material development and highly evolved tape wrap process.

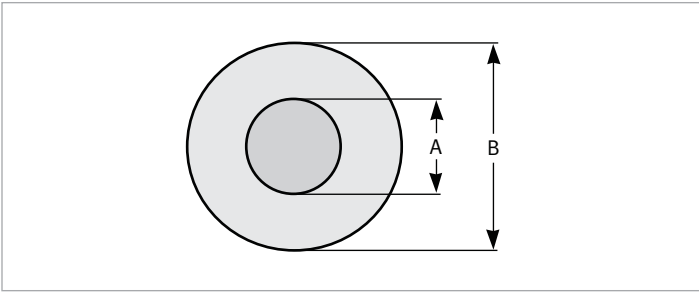
- Rated for temperature extremes
- Non-flammable, non-outgassing materials
- High uniformity and concentricity



Gore manufactures a variety of standard and custom PTFE insulated wire for any hook-up application.

### PROPERTIES OF GORE™ PTFE HOOK-UP WIRE

Construction	Conductors are helically wrapped with overlapping PTFE resin tapes which are then sintered into a homogeneous mass conforming to MIL-W-16878
Temperature rating	-65°C to 200°C SPC Conductors -65°C to 200°C NPC Conductors per MIL-W-16878
Conductors	Silver-plated copper conductors are standard. Special conductors such as nickel-plated copper, stainless steel strands, high-strength copper alloys, silver, pure nickel, copperweld, beryllium copper, etc. are also available.
Color coding	Standard hook-up wire is supplied in solid colors to MIL-STD-104. Striping is also available upon request.
Voltage rating	See the following tables
Approvals	See the following tables
Bondability	Surface treatment to make the insulation bondable may be specified



### GORE™ PTFE Hook-up Wire Type ET

Product Class	NEMA HP 3 (MIL-W-16878/20)
Voltage Rating	250 Volts
Approvals	AWG 20 through 32 are listed under Underwriters' Laboratories, Inc. Style No. 1371 (105°C). No voltage specified.

### GORE™ PTFE Hook-up Wire Type E

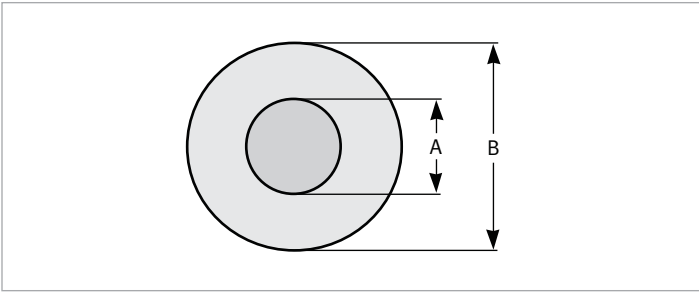
Product Class	NEMA HP 3 (MIL-W-16878/21)
Voltage Rating	600 Volts
Approvals	AWG 18 through 32 are listed under Underwriters' Laboratories, Inc. Style No. 1371 (105°C). No voltage specified.

### GORE™ Type ET PTFE Hook-up Wire Part Numbers

GORE Part Number	AWG (Stranding)	Conductor Diameter "A"	Outside Diameter "B" Minimum	Outside Diameter "B" Maximum	Nominal Weight Pounds/1000 ft
G01A010	20 (7/28)	0.038"	0.048"	0.052"	4.2
G01A020	20 (19/32)	0.040"	0.050"	0.054"	4.5
G01A030	22 (7/30)	0.030"	0.040"	0.044"	2.8
G01A040	22 (19/34)	0.032"	0.040"	0.044"	3.0
G01A050	24 (1)	0.0201"	0.030"	0.034"	1.7
G01A060	24 (7/32)	0.024"	0.034"	0.038"	1.9
G01A070	24 (19/36)	0.025"	0.034"	0.038"	2.0
G01A080	26 (1)	0.0159"	0.026"	0.030"	1.2
G01A090	26 (7/34)	0.019"	0.029"	0.033"	1.3
G01A100	26 (19/38)	0.020"	0.029"	0.033"	1.4
G01A110	28 (1)	0.0126"	0.023"	0.027"	0.8
G01A120	28 (7/36)	0.015"	0.025"	0.029"	0.9
G01A130	28 (19/40)	0.0153"	0.025"	0.029"	1.0
G01A140	30 (1)	0.010"	0.020"	0.024"	0.59
G01A150	30 (7/38)	0.012"	0.022"	0.026"	0.67
G01A160	30 (19/42)	0.0125"	0.022"	0.026"	0.70
G01A170	32 (1)	0.008"	0.018"	0.022"	0.45
G01A180	32 (7/40)	0.0093"	0.020"	0.024"	0.49
G01A190	32 (19/44)	0.0099"	0.020"	0.024"	0.53
G01A200	34 (1)	0.0063"	0.016"	0.020"	0.34
G01A210	34 (7/42)	0.0075"	0.017"	0.021"	0.38

### GORE™ Type E PTFE Hook-up Wire Part Numbers

GORE Part Number	AWG (Stranding)	Conductor Diameter "A"	Outside Diameter "B" Minimum	Outside Diameter "B" Maximum	Nominal Weight Pounds/1000 ft
G01C010	12 (19/25)	0.090"	0.107"	0.121"	21.5
G01C020	14 (19/27)	0.071"	0.088"	0.102"	14.0
G01C030	16 (19/29)	0.057"	0.073"	0.087"	9.3
G01C040	18 (19/30)	0.050"	0.064"	0.074"	7.6
G01C050	20 (7/28)	0.038"	0.054"	0.062"	4.8
G01C060	20 (19/32)	0.040"	0.054"	0.062"	5.1
G01C070	22 (7/30)	0.030"	0.046"	0.054"	3.3
G01C080	22 (19/34)	0.032"	0.046"	0.054"	3.5
G01C090	24 (1)	0.0201"	0.036"	0.044"	2.1
G01C100	24 (7/32)	0.024"	0.040"	0.048"	2.4
G01C110	24 (19/36)	0.025"	0.040"	0.048"	2.5
G01C120	26 (1)	0.0159"	0.032"	0.040"	1.5
G01C130	26 (7/34)	0.019"	0.035"	0.043"	1.7
G01C140	26 (19/38)	0.020"	0.035"	0.043"	1.8
G01C150	28 (1)	0.0126"	0.029"	0.037"	1.2
G01C160	28 (7/36)	0.015"	0.031"	0.039"	1.3
G01C170	28 (19/40)	0.0153"	0.031"	0.039"	1.3
G01C180	30 (1)	0.010"	0.026"	0.034"	0.9
G01C190	30 (7/38)	0.012"	0.028"	0.036"	1.0
G01C200	30 (19/42)	0.0125"	0.028"	0.036"	1.0
G01C210	32 (1)	0.008"	0.025"	0.033"	0.7
G01C220	32 (7/40)	0.0093"	0.026"	0.034"	0.8
G01C230	32 (19/44)	0.0099"	0.026"	0.034"	0.8
G01C240	34 (1)	0.0063"	0.022"	0.030"	0.6
G01C250	34 (7/42)	0.0075"	0.023"	0.031"	0.7



### GORE™ PTFE HOOK-UP WIRE TYPE EE

Product Class	NEMA HP 3 (MIL-W-16878/22)
Voltage Rating	1000 Volts
Approvals	AWG 10 through 32 are listed under Underwriters' Laboratories, Inc. Style No. 1371 (105°C). No voltage specified.

### GORE™ SUB-MINIATURE PTFE HOOK-UP WIRE

Product Class	Small gauge, thin-wall
Voltage Rating	100 or 250 Volts per table below

### GORE™ TYPE EE PTFE HOOK-UP WIRE PART NUMBERS

GORE Part Number	AWG (Stranding)	Conductor Diameter "A"	Outside Diameter "B" Minimum	Outside Diameter "B" Maximum	Nominal Weight Pounds/1000 ft
G02A010	12 (19/25)	0.090"	0.117"	0.133"	23.2
G02A020	14 (19/27)	0.071"	0.098"	0.114"	15.5
G02A030	16 (19/29)	0.057"	0.083"	0.095"	10.5
G02A040	18 (19/30)	0.050"	0.074"	0.084"	8.7
G02A050	20 (7/28)	0.038"	0.064"	0.072"	6.2
G02A060	20 (19/32)	0.040"	0.064"	0.072"	6.1
G02A070	22 (7/30)	0.030"	0.056"	0.064"	4.1
G02A080	22 (19/34)	0.032"	0.056"	0.064"	4.4
G02A090	24 (1)	0.0201"	0.046"	0.054"	2.8
G02A100	24 (7/32)	0.024"	0.050"	0.058"	3.1
G02A110	24 (19/36)	0.025"	0.050"	0.058"	3.2
G02A120	26 (1)	0.0159"	0.042"	0.050"	2.2
G02A130	26 (7/34)	0.019"	0.045"	0.053"	2.4
G02A140	26 (19/38)	0.020"	0.045"	0.053"	2.5
G02A150	28 (1)	0.0126"	0.039"	0.047"	2.7
G02A160	28 (7/36)	0.015"	0.041"	0.049"	1.9
G02A170	28 (19/40)	0.0153"	0.041"	0.049"	2.0
G02A180	30 (1)	0.010"	0.036"	0.044"	1.4
G02A190	30 (7/38)	0.012"	0.038"	0.046"	1.5
G02A200	30 (19/42)	0.0125"	0.038"	0.046"	1.6
G02A210	32 (1)	0.008"	0.034"	0.042"	1.2
G02A220	32 (7/40)	0.0093"	0.036"	0.044"	1.3
G02A230	32 (19/44)	0.0099"	0.036"	0.044"	1.3

### GORE™ SUB-MINIATURE PTFE HOOK-UP WIRE PART NUMBERS

GORE Part Number	AWG (Stranding)	Conductor Diameter "A"	Outside Diameter "B" Maximum	Nominal Weight Pounds/1000 ft	Voltage Rating (Volts)
H01A007	28 (1)	0.0126"	0.019"	0.62	150
H01A010	30 (1)	0.0100"	0.016"	0.42	150
H01A015	30 (7/38)	0.0120"	0.018"	0.47	150
H01A020	32 (1)	0.0080"	0.014"	0.29	150
H01A030	32 (7/40)	0.0093"	0.016"	0.32	150
H01A040	34 (1)	0.0063"	0.012"	0.21	150
H01A050	34 (7/42)	0.0075"	0.014"	0.23	150
H01A060	36 (1)	0.0050"	0.011"	0.156	150
H01A070	36 (7/44)	0.0060"	0.012"	0.17	150
H01A080	38 (1)	0.0040"	0.010"	0.096	100
H01A085	38 (7/46)	0.0050"	0.011"	0.099	100
H01A090	40 (1)	0.0031"	0.009"	0.071	100
H01A095	40 (3/44)	0.0043"	0.010"	0.087	100
H01A100	42 (1)	0.0026"	0.009"	0.056	100
H01A105	42 (3/46)	0.0034"	0.009"	0.068	100



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

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