

## HIGH TEMP HEATER WIRE

### DESCRIPTION

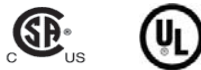
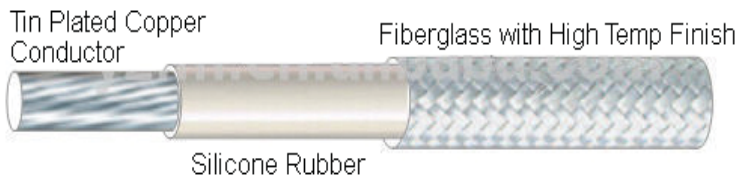
MPI Morheat stocks a wide variety of high temperature heating wire for most heating applications.



### CONDUCTOR SIZE CONVERSION

GAUGE SIZE	CONDUCTOR OD (nominal)	METRIC SIZE
4 AWG	0.266" (6.76mm)	25.0 mm <sup>2</sup>
6 AWG	0.202" (5.13mm)	16.0 mm <sup>2</sup>
8 AWG	0.166" (4.22mm)	10.0 mm <sup>2</sup>
10 AWG	0.110" (2.79mm)	6.0 mm <sup>2</sup>
12 AWG	0.088" (2.24mm)	4.0 mm <sup>2</sup>
14 AWG	0.069" (1.75mm)	2.5 mm <sup>2</sup>
16 AWG	0.056" (1.42mm)	1.5 mm <sup>2</sup>
18 AWG	0.047" (1.19mm)	0.75 mm <sup>2</sup>
20 AWG	0.038" (0.97mm)	0.50 mm <sup>2</sup>
22 AWG	0.029" (0.74mm)	0.34 mm <sup>2</sup>
24 AWG	0.024" (0.61mm)	0.25 mm <sup>2</sup>

## (1 Conductor) SEW-2 WIRE 600V, 390°F(200°C), Tin-Plated Copper



### FEATURES

- CONDUCTOR - Tin-Plated Copper Stranded
- INSULATION - Extruded Silicone Rubber
- JACKET - Fiberglass Braid
- COATING - High Temperature Finish
- STANDARDS - UL3071, CSA#C22.2

### DESCRIPTION

- Tough and Flexible high temperature wire that can withstand repeated flexing and mechanical abuse.
- Moisture + Fray resistant
- Asbestos Free

### STOCK - SEW-2 600V, 390°F/200°C

PART#	COLORS	AWG	STRANDS	OD (nom.) (inch/mm)	AMPACITY*
SEW-2-16-color	White Red Black	16 AWG	7 x 0.0201"	0.138"/3.5mm	35
SEW-2-14-color	White Red Black	14 AWG	7 x 0.0253"	0.147"/3.7mm	54
SEW-2-12-color	White Red Black	12 AWG	19 x 0.0180"	0.166"/4.2mm	68
SEW-2-10-color	White Red Black	10 AWG	37 x 0.0159"	0.216"/5.5mm	90

#### \* Ampacity Assumptions

Conductor Temp - 150°C  
Ambien Air Temp - 40°C  
ambient air

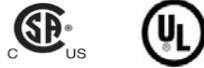
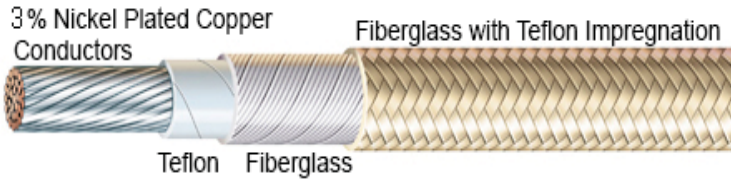
#### Correction Factor - Temp

Ambient 212°F(100°C) - 79%  
Ambient 301°F(150°C) - 50%  
Ambient 355°F(180°C) - 35%

#### Full Spool Sizes

10-20 AWG 1000ft  
6-8 AWG 500ft

## (1 Conductor) TGGT WIRE 600V, 482°F(250°C), Nickel-Plated Copper



### FEATURES

- CONDUCTOR - 3% Nickel-Plated Copper Stranded
- INSULATION - PTFE Tape, Fiberglass Wrapped
- JACKET - Fiberglass Braid
- COATING - High Temperature Finish
- STANDARDS - UL5256, CSA#270403

### DESCRIPTION

- Tough and Flexible high temperature wire that can withstand repeated flexing and mechanical abuse.
- Moisture + Fray resistant
- Asbestos Free

#### \* Ampacity Assumptions

Conductor Temp - 250°C  
Ambien Air Temp - 25°C

#### Correction Factor - Temp

Ambient 212°F(100°C) - 85%  
Ambient 301°F(150°C) - 65%  
Ambient 391°F(200°C) - 49%  
Ambient 436°F(225°C) - 35%

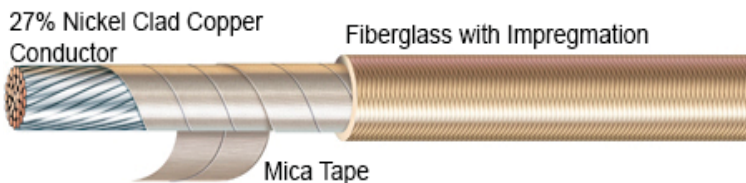
#### Full Spool Sizes

10-20 AWG 1000ft  
6-8 AWG 500ft

### STOCK - TGGT 600V, 482°F/250°C

PART#	AWG	STRANDS	OD (nom.) (inch/mm)	AMPACITY*
TGGT-20-FM	20 AWG	10 x 0.010"	0.079"/2.0mm	14
TGGT-18-FM	18 AWG	16 x 0.010"	0.087"/2.2mm	17
TGGT-16-FM	16 AWG	26 x 0.010"	0.110"/2.8mm	28
TGGT-14-FM	14 AWG	41 x 0.010"	0.122"/3.1mm	39
TGGT-12-FM	12 AWG	65 x 0.010"	0.142"/3.6mm	54
TGGT-10-FM	10 AWG	103 x 0.010"	0.177"/4.5mm	73
TGGT-8-FM	8 AWG	163 x 0.010"	0.217"/5.5mm	93
TGGT-6-FM	6 AWG	260 x 0.010"	0.267"/6.8mm	117

## (1 Conductor) MGT WIRE 600V, 842°F(450°C), Nickel-Clad Copper



### FEATURES

- CONDUCTOR - 27% Nickel-Clad Copper Stranded
- INSULATION - Mica Tape
- JACKET - Fiberglass Braid
- COATING - High Temperature Finish
- STANDARDS - UL5335, CSA#270403

### DESCRIPTION

- Tough and Flexible high temperature wire that can withstand repeated flexing and mechanical abuse.
- Moisture + Fray resistant
- Asbestos Free

#### \* Ampacity Assumptions

Conductor Temp - 250°C  
Ambien Air Temp - 25°C

#### Correction Factor - Temp

Ambient 212°F(100°C) - 122%  
Ambient 391°F(200°C) - 100%  
Ambient 481°F(250°C) - 87%  
Ambient 571°F(300°C) - 70%  
Ambient 661°F(350°C) - 49%

#### Full Spool Sizes

10-20 AWG 1000ft  
6-8 AWG 500ft

### STOCK - MGT 600V, 842°F/450°C

PART#	AWG	STRANDS	OD (nom.) (inch/mm)	AMPACITY*
MGT-20-FM	20 AWG	10 x 0.010"	0.095"/2.4mm	27
MGT-18-FM	18 AWG	16 x 0.010"	0.106"/2.7mm	37
MGT-16-FM	16 AWG	26 x 0.010"	0.118"/3.0mm	48
MGT-14-FM	14 AWG	41 x 0.010"	0.134"/3.4mm	64
MGT-12-FM	12 AWG	65 x 0.010"	0.154"/3.9mm	85
MGT-10-FM	10 AWG	103 x 0.010"	0.205"/5.2mm	113
MGT-8-FM	8 AWG	163 x 0.010"	0.240"/6.1mm	126
MGT-6-FM	6 AWG	260 x 0.010"	0.283"/7.2mm	155