



THERMAL TECH EQUIPMENT Co. Inc.

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High Temperature Wire Overview

MGT1000 (High Temperature Lead Wire)

Certification: UL/CSA- Industrial

Conductor: 27% Nickel Plated Copper

Temperature Rating: 450°C UL (non UL 538°C)

Insulation: Glass Reinforced Mica

Voltage Rating: 600V

Jacket: Glass Braid

Applications: Ovens; Cooking Equipment; Electric Heaters; Iron Mills; Steel Mills; Glass Plants; Cement Kilns

Advantages: Rated at 1000°F

MGT-A (Grade "A" Nickel High Temperature Lead Wire)

Certification: UL/CSA - Industrial

Conductor: Grade "A" Nickel

Temperature Rating: 450°C (non UL 538°C)

Insulation: Glass Reinforced Mica

Voltage Rating: 600V

Jacket: Glass Braid

Applications: Ovens; Cooking Equipment; Electric Heaters; Iron Mills; Steel Mills; Glass Plants; Cement Kilns

Advantages: Grade "A" nickel will withstand higher melt temperature and has better corrosion resistance.

TGGT (High Temperature Appliance & Heater Element Lead Wire)

Certification: UL/CSA

Conductor: Nickel Plated Copper

Temperature Rating: 250°C

Insulation: Teflon, Double Fiberglass Wrap

Voltage Rating: 600V

Jacket: Glass Braid

Application: Appliances; Heat & Cooking Equipment; Ovens; Kilns, Band, Strip & Cartridge Heaters; Curing; Drying Equipment

TGGT-A (Grade "A" Nickel High Temperature Lead Wire)

Certification: UL/CSA

Conductor: Grade "A" Nickel

Temperature Rating: 250°C

Insulation: Teflon, Double Fiberglass Wrap

Voltage Rating: 600V

Jacket: Glass Braid

Applications: Appliances; Heat & Cooking Equipment; Ovens; Kilns, Band, Strip & Cartridge Heaters; Curing; Drying Equipment

Advantages: Grade "A" Nickel Conductor will withstand higher melt temperature and has better corrosion resistance.

Firezone 101C (Fire, Moisture, Oil, Fluid, Abrasion Resistant Wire)

Certification: UL

Conductor: Nickel Plated Copper

Temperature Rating: 250°C/399°C

Insulation: Teflon-Mica Tapes, Teflon Barrier

Voltage Rating: 600V

Jacket: Teflon Coated Glass Braid

Note: Used in refineries, 60 minute circuit integrity under 2000°F flame test.

Applications: Steel; Iron and Paper Mills (Refineries)

Advantages: Abrasion; Moisture; Oil and Fluid Resistance; Circuit Integrity

High Temperature Wire Overview

SGI-250 (High Temperature, High Voltage Gas Igniter Lead Wire)

Certification: UL 3257

Conductor: Nickel Plated Copper

Temperature Rating: 250°C

Insulation: Silicone

Voltage Rating: 10kV AC - 25 kV DC

Jacket: Silicone

Applications: Gas igniter systems for furnaces, heating and air conditioning, water heaters, oven. Spark Igniter 250°C - 25 kV DC

UL1659 (TFE- Teflon. High Temperature Heater Element Lead Wire)

Certification: UL/CSA

Conductor: Nickel Plated Copper

Temperature Rating: 250°C

Insulation: TFE

Voltage Rating: 600V

Advantages: Oil, gas, moisture resistant.

UL1199 (TFE- Teflon. High Temperature Heater Element Lead Wire)

Certification: UL/CSA

Conductor: Silver Plated Copper

Temperature Rating: 200°C

Insulation: TFE

Voltage Rating: 600V

Advantages: Oil, gas, moisture, and acid resistant. Easy handling & low friction.

UL1180 (TFE- Teflon. High Temperature Heater Element Lead Wire)

Certification: UL/CSA

Conductor: Silver Plated Copper

Temperature Rating: 200°C

Insulation: TFE

Voltage Rating: 300V

Advantages: Oil, gas, moisture, and acid resistant. Easy handling & low friction.

SRML (High Temperature Silicone Rubber Motor Lead & Appliance Wire)

Certification: AIEE

Conductor: Tinned Copper

Temperature Rating: 200°C

Insulation: Silicone Rubber

Voltage Rating: 600V

Jacket: Glass Braid

Note: SF2, SFF2 and SRML are similar. Please call to consult.

Applications: Motors, Transformers, Appliances, Lighting Fixtures, Power Supplies

Advantages: Very Flexible; Moisture & Temperature Resistant; Easy To Strip

High Temperature Wire Overview

SF2 (High Temperature Silicone Rubber - Glass Braid Lead Wire)

Certification: UL/CSA

Conductor: Tinned Copper

Temperature Rating: 200°C

Insulation: Silicone Rubber

Voltage Rating: 600V

Jacket: Glass Braid

Note: Less strands of copper than SFF2

Applications: Similar to SRML, call to consult.

SFF2(150°C) (High Temperature Silicone Rubber - Glass Braid Lead Wire)

Certification: UL/CSA

Conductor: Tinned Copper

Temperature Rating: 150°C

Insulation: Silicone Rubber

Voltage Rating: 600V

Jacket: Glass Braid

Applications: Similar to SRML, call to consult.

SFF2(200°C) (High Temperature Silicone Rubber - Glass Braid Lead Wire)

Certification: UL/CSA

Conductor: Tinned Copper

Temperature Rating: 200°C

Insulation: Silicone Rubber

Voltage Rating: 600V

Jacket: Glass Braid

Applications: Similar to SRML, call to consult.