



Nichrome Heater Wire

Used for the construction of heater elements in cryogenic systems operating as high as 500K.

Features

- 80% Nickel, 20% Chromium.
- 32AWG, 0.008" diameter.
- Polyimide film insulation operates to 500K.
- Nominal Resistance: 10 Ω per foot.

When using Constant-Current type heater power supplies like those in all Cryo-con controllers, increase the wire length to increase total power dissipation. Maximum power dissipation for a 50W, 1 Ampere heater output will be obtained with a heater resistance of 50 Ω . Correspondingly, a 25W, 1Ampere heater will use a maximum resistance of 25 Ω . Adding resistance beyond these values will not increase power dissipation because the heater voltage compliance limit has been reached.

When using a Constant-Voltage type heater power supply, power dissipation in the heater is increased by decreasing the wire length.

Nichrome is ferromagnetic and may not be applicable to all systems. For non-ferromagnetic heaters, consider Phosphor-Bronze or Manganin wire.



Accessories

CP-100	Platinum RTD, Ceramic, Wire Wound.
4034-031	Two instrument shelf rack mount kit.
4034-032	One instrument shelf rack mount kit.
4034-016	Dual Sensor Cable, 2 x 8 foot.
4034-033	Shielded Sensor Connector Kit.
4038-036	Heater1 / Heater2 connector block kit.
4034-050	High accuracy Thermocouple Input Module.
3039-001	Cartridge Heater, 50 Ω , 0.25" x 1".
3039-002	Cartridge Heater, 50 Ω , 0.125" x 1.5".
4034-035	Shielded IEEE-488.2 Interface Bus Cable 6'6".

Contact Information

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