PRODUCTS

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# Thermocouple Wire

### CEFIR® Series – Ceramic Fiber *up to 2400°F*

Ceramic toughness for the most demanding high temperature applications. The CEFIR® Series thermocouple wire is available in two temperature ranges, 2400°F and 2200°F, giving you the flexibility of choosing the most economical wire for your high temperature application. Ceramic fiber is braided on the individual conductors and the jacket. The ceramic fiber is flexible throughout the extended temperature range. The high temperature limit of CEFIR® allows it to be used in areas where beaded ceramic thermocouples or sheathed thermocouples were previously specified. CEFIR® is available with or without saturant, tracers and metal outer coverings, and with heavy or standard insulation.

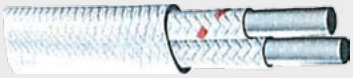
CEFIR® *2400°F (1320°C)**
CEFIR® *2200°F (1200°C)**

*maximum single exposure temperature

*Choose from:*
***CEFIR® 2400:*** 2400°F (1320°C) Max single exposure, 2200°F (1200°C) continuous
***CEFIR® 2200:*** 2200°F (1200°C) Max single exposure, 2000°F (1100°C) continuous

### Refrasil® – Vitreous Silica Fiber *up to 2000°F*

Vitreous silica fibers are braided on individual conductors and the construction is completed with an overall braid of vitreous silica fiber. The construction is specially designed for continuous extreme temperature applications to 1800°F (980°C). Heavy or standard insulation supplied saturant free with or without tracers inthe negative leg.



Refrasil® *2000°F (1100°C)**

* maximum single exposure temperature
*1800°F maximum continuous temperature

### Q-Glass Fiberglass *up to 1600°F*

Individual conductors are insulated with high strength fiberglass braid and may be ordered twisted (with no jacket) or with an overall fiberglass jacket. Q-Glass is designed for continuous use in high temperature applications. Reduced itch Tuffbond construction is available.

Q-Glass *1600°F (870°C)**

*maximum single exposure temperature
1300°F maximum continuous temperature

### G-Glass Fiberglass *up to 1200°F*

Individual conductors are insulated with general purpose fiberglass braid and may be ordered twisted (with no jacket) or with an overall fiberglass jacket. G-Glass is designed for continuous use in high temperature applications. Reduced itch Tuffbond construction is available.

G-Glass *1200°F (650°C)**

*maximum single exposure temperature
950°F maximum continuous temperature

For assistance in specifying multi-pair cables for your unique application, or to place an order, contact your sales representative, or call TE Wire & Cable directly, 888-4TE-WIRE, international, call 201-845-9400.

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Specialty Wire & Cable
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# Thermocouple Wire

### Polyimide Tape

*up to 500°F*

A variety of color coded polyimide tape constructions are available with an operating range of –400°F (–240°C) to +500°F (260°C) continuous. The tapes are highly resistant to abrasion and solvents and are unaffected by extreme or rapid variations in temperatures. PTFE tape rated to 500°F (260°C) is also available.

*PTFE 500°F (260°C)*
*Polymide 500°F (260°C)*

### Fluoropolymers

*up to 500°F*

These extruded fluoropolymers are rated for use from –300°F (–200°C) up to high temperatures shown for each construction. They are flame retardant and non-propagating in fire conditions. All are moisture and chemical resistant and accepted for use around food and pharmaceuticals.

*FEP 400°F (200°C)*
*PFA 500°F (260°C)*

### Polyvinyl Chloride

*up to 221°F*

Flame retardant PVC insulation provides excellent chemical and abrasion resistance. UL Listed constructions are also available.

*PVC 221°F (105°C)*

**Rugged Metal Coverings** are available for use with insulated wire. Coverings include stainless steel, tinned copper and inconel braids offering excellent cut through and abrasion protection from low to high temperatures. International color codes available. Low drift stabilized wire available.

**Bare Conductor** – TE Wire & Cable is an industry supplier of bare conductor thermocouple wire. Bare conductor is available in a wide variety of calibration and wire sizes. Low drift stabilized wire and custom calibrations are available.

TE Wire & Cable is an ISO 9001:2008 certified company. Many TE Wire & Cable products are certified to conform to national and international standards, including – ANSI MC96.1; ASTM E230; Boeing BAC5621; GE ST2155; AMS 2750D; NIST; MIL STD 45662A; MIL STD 105 and many others. TE Wire & Cable and CEFIR are registered trademarks of TE Wire & Cable LLC. Refrasil is a registered trademark of Hitco Carbon Composites, Inc.

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