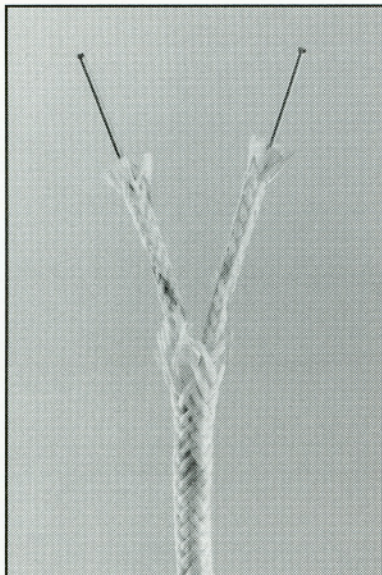
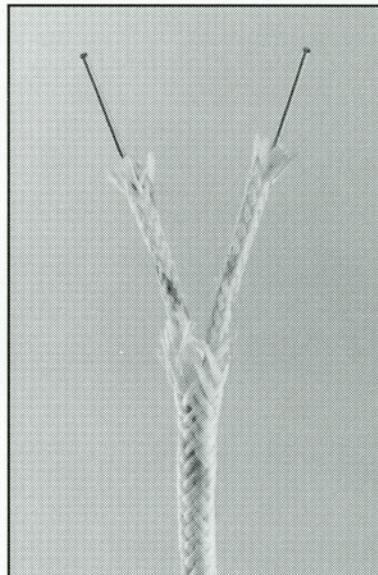


# Thermocouple Wire



**CFCF** Ceramic Fiber



**MCFCF** Ceramic Fiber

## PRODUCT DESCRIPTION

Highest temperature flexible insulation available. The braided yarn is a composition of the oxides of alumina, boric and silicone. Each conductor as well as the overall jacket are braided with this high temperature yarn to provide maximum flexibility at extremely high temperatures.

## PERFORMANCE FEATURES

- Designed for continuous use at temperatures to 2200°F (1205°C), intermittent use to 2600°F (1430°C).
- Good abrasion and chemical resistance.

## APPLICATIONS

- As a replacement for beaded thermocouples
- Heat treating
- Coke ovens
- Soaking pits
- Furnace survey thermocouples
- Brick & tile kilns

## PRODUCT DESCRIPTION & PERFORMANCE FEATURES

This construction has a mica barrier tape applied to each single conductor prior to being insulated with the ceramic fiber yarns. The construction is identical to the CFCF construction shown in the adjacent column except for the addition of a light jacket saturant and the mica tape, which protects against potential shorting from the back carbon residue which forms when the product is used in applications where the air is limited, such as thermocouples in protection tubes. The mica may also provide moisture protection during temperature cycling.

## APPLICATIONS

- For use in closed tubes or protected atmosphere
- As a replacement for beaded thermocouples
  - Heat treating
  - Coke ovens
  - Soaking pits
  - Furnace survey thermocouples
  - Brick & tile kilns

### Insulation Color Code: Positive - Yellow Tracer Negative - Red Tracer Overall - White with Yellow Tracer

Order Code	Insulation		AWG No.	Type Wire	Temperature (°F)		Nominal Size (in)	Weight/ 1000 ft.
	Singles	Jacket			Continuous	Intermittent		
K-14-MCFCF	Mica Ceramic Braid	Ceramic Braid	14	Solid	2200	2600	.160 x .280	42
K-16-MCFCF	Mica Ceramic Braid	Ceramic Braid	16	Solid	2200	2600	.145 x .255	30
K-20-MCFCF	Mica Ceramic Braid	Ceramic Braid	20	Solid	2200	2600	.125 x .195	16
K-14-CFCF	Ceramic Braid	Ceramic Braid	14	Solid	2200	2600	.138 x .235	40
K-16-CFCF	Ceramic Braid	Ceramic Braid	16	Solid	2200	2600	.120 x .210	28
K-20-CFCF	Ceramic Braid	Ceramic Braid	20	Solid	2200	2600	.110 x .180	14

Calibration:  
ANSI Type K  
Chromel/Alumel

### Insulation Color Code: Positive - White Negative - Red Tracer Overall - White with Black Tracer

J-20-MCFCF	Mica Ceramic Braid	Ceramic Braid	20	Solid	2200	2600	.125 x .195	16
J-20-CFCF	Ceramic Braid	Ceramic Braid	20	Solid	2200	2600	.110 x .180	14

Calibration:  
ANSI Type J  
Iron/Constantan

### Insulation Color Code: Positive - Purple Tracer Negative - Red Tracer Overall - White with Purple Tracer

E-20-MCFCF	Mica Ceramic Braid	Ceramic Braid	20	Solid	2200	2600	.125 x .195	16
E-20-CFCF	Ceramic Braid	Ceramic Braid	20	Solid	2200	2600	.110 x .180	14

Calibration:  
ANSI Type E  
Chromel/Constantan