

## Fiberglass Insulated Thermocouple Wire -FG ( + 510°C)

**FG:** FG-Glass Fiberglass. Individual conductors are insulated with general purpose fiberglass and with an overall fiberglass jacket. It is Most popular and widely applied of all glass insulations. A color-coded fiberglass braid saturated with a high-performance resin is used for insulation of the single conductors and jacket. Designed for continuous use in temperatures rating up to 950 Degrees F (510 Degrees C).



### Key Features

- Rated for continuous use at 950° F (510° C).
- Rate for Intermittent use at 1200° F (650° C).
- Impregnated with high-temperature resin for better handling and reduce fraying.
- Available in standard limits and special Limits of error.
- Available in Type J, K, RX & SX

### Comparison to Other Constructions:

Abrasion Resistance - Fair  
Chemical Resistance - Fair  
Moisture Resistance - Fair

Order Code W-TTXX-XX-FG-XXXX- X

|   |   |  |   |   |
|---|---|--|---|---|
| 1 | 2 |  | 3 | 4 |
|---|---|--|---|---|

**Example: W-TT16-KX-FG-SSOB**

Note: Add "IEC" at the end of order code IEC Color coding

| Field 1 Wire Gauge Size |               |
|-------------------------|---------------|
| Code                    |               |
| 16                      | 16 AWG. Solid |
| 18                      | 18 Awg, Solid |
| 20                      | 20 AWG. Solid |
| 24                      | 24 AWG. Solid |

USE **"S"** with code for stranded conductor

| Field 2 Thermocouple Type |                               |
|---------------------------|-------------------------------|
| Code                      |                               |
| J                         | Type J Thermocouple Grade     |
| K                         | Type K Thermocouple Grade     |
| R/SX                      | Type RX/SX Extension Grade    |
| JX                        | Type J Thermocouple EXT Grade |
| KX                        | Type K Thermocouple EXT Grade |

| Field 3 SS Over braiding |                              |
|--------------------------|------------------------------|
| Code                     |                              |
|                          | Leave Blank if not required  |
| SSOB                     | Stainless Steel Overbraiding |

| Field 4 Accuracy |                             |
|------------------|-----------------------------|
| Code             |                             |
|                  | Leave Blank for std. limits |
| L                | For special limits of error |

| Cond. Size AWG. | Insulation Thickness (Inches) | Jacket Thickness (Inches) | Outer Diameter (Inches) | Net Weight LB/1000 FT |
|-----------------|-------------------------------|---------------------------|-------------------------|-----------------------|
| 16              | 0.008                         | 0.010                     | 0.087 x 0.152           | 21                    |
| 18              | 0.008                         | 0.010                     | 0.072 x 0.125           | 13                    |
| 20              | 0.008                         | 0.010                     | 0.057 x 0.102           | 8                     |
| 24              | 0.006                         | 0.008                     | 0.042 x 0.072           | 3.5                   |