

# PFA 260°C SHIELDED THERMOCOUPLE WIRE

## APPLICATIONS

- Temperature Sensors
- Aerospace
- Petrochemical Plants

## RATINGS

- Flame Retardant
- Passes IEEE 383 Flame Test
- Passes VW-1 Flame Test

## SPECIFICATIONS

**Conductor:** Solid or stranded thermocouple grade wire per ASTM E230 & ANSI MC96.1

**Construction:** Twisted shielded pair with drain wire

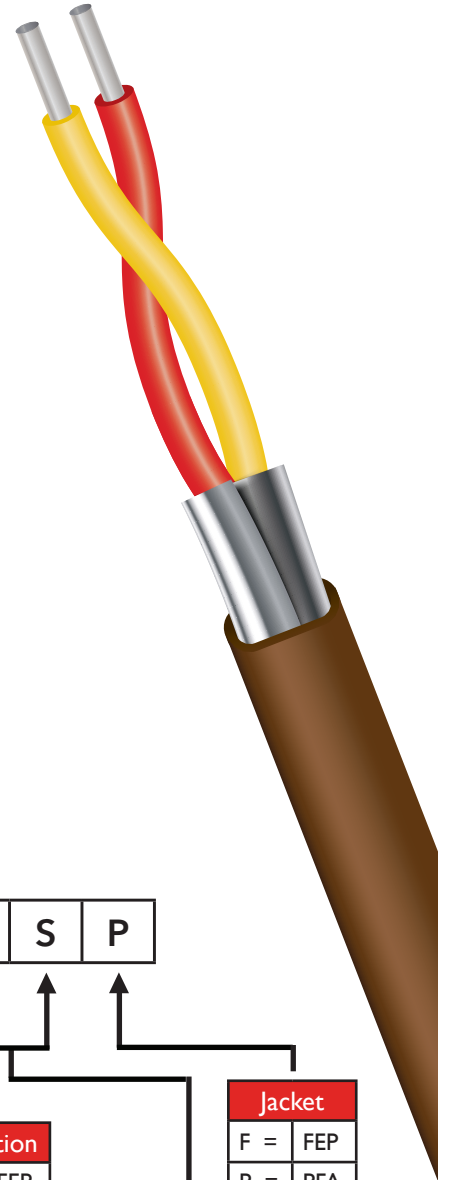
**Insulation:** Flame retardant extruded fluoropolymer PFA

**Overbraid (Optional):** Stainless Steel

**Jacket:** Flame retardant extruded fluoropolymer PFA

**Color Code:** Conforms to ASTM E230 & ANSI MC96.1

*RTD constructions available. Please consult factory for more information.*



## ORDERING CODE

Example: 

|   |   |
|---|---|
| X | X |
|---|---|

 - 

|   |
|---|
| X |
|---|

 - 

|   |
|---|
| X |
|---|

 - 

|   |   |   |   |
|---|---|---|---|
| P | T | S | P |
|---|---|---|---|

| Thermocouple Type |                          |
|-------------------|--------------------------|
| J                 | = Type J Thermocouple    |
| K                 | = Type K Thermocouple    |
| JX                | = Type J Extension Wire  |
| KX                | = Type K Extension Wire  |
| RSX               | = Type RS Extension Wire |

| AWG Size |
|----------|
| 24-14    |

| Metallic Overbraid |                   |
|--------------------|-------------------|
| 0                  | = None            |
| 1                  | = Stainless Steel |

| Insulation |       |
|------------|-------|
| F          | = FEP |
| P          | = PFA |

| Jacket |       |
|--------|-------|
| F      | = FEP |
| P      | = PFA |

| Conductor Type/Tolerance |   |
|--------------------------|---|
| 1                        | = Thermocouple grade, solid wire, standard tolerance    |
| 2                        | = Thermocouple grade, solid wire, special tolerance     |
| 3                        | = Extension grade, solid wire, standard tolerance       |
| 4                        | = Extension grade, solid wire, special tolerance        |
| 5                        | = Thermocouple grade, stranded wire, standard tolerance |
| 6                        | = Thermocouple grade, stranded wire, special tolerance  |
| 7                        | = Extension grade, stranded wire, standard tolerance    |
| 8                        | = Extension grade, stranded wire, special tolerance     |

| Lead Configuration |                     |
|--------------------|---------------------|
| LL                 | = Parallel          |
| TW                 | = Twisted           |
| TS                 | = Twisted w/ Shield |

### COPYRIGHT

This document is protected under copyright law and is the property of Radix Wire and Cable. Data contained herein is confidential to Radix Wire and Cable and this document and/or any part of the data contained herein may not be copied, duplicated or released for manufacturing or sale of equipment outside of Radix Wire and Cable or any affiliates without the prior written authorization of Radix Wire & Cable.

# PFA 260°C SHIELDED THERMOCOUPLE WIRE

## SPECIFICATIONS:

| Conductor Size | Insulation Thickness |      | Jacket Thickness |      | Outer Dia. (OD) |     | Net Weight |        |
|----------------|----------------------|------|------------------|------|-----------------|-----|------------|--------|
|                | AWG                  | IN   | MM               | IN   | MM              | IN  | MM         | LBS/MF |
| 24             | 0.008                | 0.20 | 0.010            | 0.25 | 0.105           | 2.7 | 10         | 15     |
| 22             | 0.008                | 0.20 | 0.010            | 0.25 | 0.115           | 2.9 | 12         | 18     |
| 20             | 0.008                | 0.20 | 0.010            | 0.25 | 0.129           | 3.3 | 15         | 22     |
| 18             | 0.008                | 0.20 | 0.010            | 0.25 | 0.145           | 3.7 | 19         | 28     |
| 16             | 0.008                | 0.20 | 0.010            | 0.25 | 0.167           | 4.2 | 26         | 38     |
| 14             | 0.008                | 0.20 | 0.010            | 0.25 | 0.193           | 4.9 | 37         | 55     |

## Initial Calibration Tolerances per ASTM E230 and ANSI MC96.1

| Type | Wire Grade   | Temperature Range °C | Standard Grade Limits of Error | Special Grade Limits of Error |
|------|--------------|----------------------|--------------------------------|-------------------------------|
| J    | Thermocouple | 0°C to 760°C         | ± 2.2°C or ± 0.75%             | ± 1.1°C or 0.4%               |
| K    | Thermocouple | 0°C to 1260°C        | ± 2.2°C or ± 0.75%             | ± 1.1°C or 0.4%               |
| JX   | Extension    | 0°C to 200°C         | ± 2.2°C                        | ± 1.1°C                       |
| KX   | Extension    | 0°C to 200°C         | ± 2.2°C                        | ± 1.1°C                       |
| RSX  | Extension    | 0°C to 200°C         | ± 5°C                          | N/A                           |



26000 Lakeland Boulevard, Euclid, OH 44132  
Tel: 216 731-9191 • Fax: 216 731-7082

[www.radix-wire.com](http://www.radix-wire.com)