

## 83915 Multi-Conductor - High-Temperature Thermocouple Wire

For more Information  
please call

1-800-Belden1



### General Description:

20 AWG solid conductors, FEP insulation, unshielded, FEP jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 1            | 20  | Solid     | Chromel            |
| 1            | 20  | Solid     | Constantan         |

Total Number of Conductors: 2

#### Insulation

Insulation Material:

| Insulation Material                  | Wall Thickness (in.) |
|--------------------------------------|----------------------|
| FEP - Fluorinated Ethylene Propylene | .010                 |

#### Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material                |
|--------------------------------------|
| FEP - Fluorinated Ethylene Propylene |

#### Overall Cable

Overall Nominal Diameter: 0.076 x 0.128 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 13 lbs/1000 ft.

Min. Bend Radius/Minor Axis: 1.250 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |                     |
|---------------------------------------|---------------------|
| NEC/(UL) Specification:               | PLTC, CL3P          |
| EU Directive 2011/65/EU (ROHS II):    | Yes                 |
| EU CE Mark:                           | Yes                 |
| EU Directive 2000/53/EC (ELV):        | Yes                 |
| EU Directive 2002/95/EC (RoHS):       | Yes                 |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005          |
| EU Directive 2002/96/EC (WEEE):       | Yes                 |
| EU Directive 2003/11/EC (BFR):        | Yes                 |
| CA Prop 65 (CJ for Wire & Cable):     | Yes                 |
| MII Order #39 (China RoHS):           | Yes                 |
| ANSI Specification:                   | MC 96.1-1982 Type E |

#### Flame Test

UL Flame Test: UL910 Steiner Tunnel

#### Plenum/Non-Plenum

Plenum (Y/N): Yes

## 83915 Multi-Conductor - High-Temperature Thermocouple Wire

### Surface Printing (Overall)

### Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

| Description | DCR @ 20°C (Ohm/1000 ft) |
|-------------|--------------------------|
| CHROMEL     | 420                      |
| CONSTANTAN  | 308                      |

### Notes (Overall)

**Notes:** Chromel & Constantan = "Constantan is a Hoskins Manufacturing Company trademark."

### Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc                |
|---------------|----------|-------------|-------|-------|--------------------------|
| 83915 0011000 | 1,000 FT | 15.000 LB   | BROWN | C     | 2#20 TYPE E THERMOCOUPLE |
| 83915 001500  | 500 FT   | 7.000 LB    | BROWN |       | 2#20 TYPE E THERMOCOUPLE |

**Notes:**

C = CRATE REEL PUT-UP.

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