

## 83900 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	Iron
1	20	Solid	Constantan

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.254

#### 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: 1.930 x 3.251 mm

### Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 19.347 Kg/Km

Min. Bend Radius/Minor Axis: 31.750 mm

### 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

METRIC MEASUREMENT VERSION

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<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes
<b>ANSI Specification:</b>	MC 96.1-1982 Type J

### Flame Test

<b>UL Flame Test:</b>	UL910 Steiner Tunnel
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### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	Yes
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### Surface Printing (Overall)

<b>Surface Printing:</b>	BELDEN 83900 E34972 2C20 (UL) CL3P 200C PLTC SUN RES THCPL J (2 FT., 7 DIGIT SEQUENTIAL NUMBER) FEET
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### Electrical Characteristics (Overall)

#### Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
IRON	203.422
CONSTANTAN	1010.55

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83900 001100	100 FT	2.000 LB	BROWN		2#20 TYPE J THERMOCOUPLE
83900 0011000	1,000 FT	14.000 LB	BROWN	C	2#20 TYPE J THERMOCOUPLE
83900 001500	500 FT	7.000 LB	BROWN		2#20 TYPE J THERMOCOUPLE

#### Notes:

C = CRATE REEL PUT-UP.

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