



**Part Number:** 83900

Thermocouple, (2) 20 AWG Solid Type J, FEP/FEP, PLTC, High-Temp

## Product Description

Two 20 AWG solid Type J conductors, fluorinated ethylene propylene (FEP) insulation, fluorinated ethylene propylene (FEP) jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Conductors
20	Solid	Iron	1
20	Solid	Constantan	1

Conductor Count:	2
Total Number of Pairs:	1
Total Number of Triads:	N/A

#### Insulation

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.01 in

#### Color Chart

Number	Color
Iron	White
Constantan	Red

#### Outer Shield Material

Material
Unshielded

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.076 x 0.128 in	0.012 in

### Electrical Characteristics

#### Conductor DCR

Element	Nominal Conductor DCR
IRON	62 Ohm/1000ft
CONSTANTAN	308 Ohm/1000ft

#### Temperature Range

UL Temp Rating:	200°C
Operating Temp Range:	-70°C To +200°C

### Mechanical Characteristics

Bulk Cable Weight:	13 lbs/1000ft
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Min Bend Radius/Minor Axis:	1.25 in
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Standards

NEC/(UL) Specification:	PLTC, CL3P
Data Category:	MC 96.1-1982 Type J
ANSI Compliance:	MC 96.1-1982 Type J

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Sunlight Resistance:	Yes
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Flammability, LS0H, Toxicity Testing

Other Flammability:	NFPA262
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Part Number

Plenum (Y/N):	Yes
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Variants

Item #	Color
83900 001100	BROWN
83900 0011000	BROWN
83900 001500	BROWN

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