



Part Number: 83900

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

[Request Sample](#)

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
Conductor Size:	20 AWG

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

Construction and Dimensions

Print Legend:	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

Conductor DCR

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

Shielding:	Unshielded
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Temperature Range

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

Mechanical Characteristics

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

Standards

NEC/(UL) Specification:	CL3P, PLTC
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, LSOH, Toxicity Testing

Other Flammability:	NFPA262
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Variants

Item #	Color	Footnote
83900 001100	Brown	
83900 0011000	Brown	C
83900 001500	Brown	

Footnote:	C - CRATE REEL PUT-UP.
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