



Product: [83900](#)

Type J Thermocouple, 1 Pr #20 Sol, FEP Ins Wht, Red, Brn FEP Jkt, 300V CL3P 200C PLTC SUN RES

[Request Sample](#)

Product Description

Type J Thermocouple, 1 Pair 20AWG (Solid) Iron+Constantan, FEP Insulation Wht, Red Color Code, Brown FEP Outer Jacket, CL3P 200C PLTC SUN RES

Technical Specifications

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Pairs
Pair	20	Solid	Iron & Constantan	1

Conductor Count: 2

Insulation

Element	Material	Nominal Wall Thickness
Pair	FEP - Fluorinated Ethylene Propylene	0.01 in

Color Chart

Number	Color
Iron	White
Constantan	Red

Outer Shield Material

Material
No Shield

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
Min Bend Radius/Minor Axis:	1.25 in

Standards

NEC/(UL) Compliance:	CL3P, PLTC
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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
MII Order #39 (China RoHS):	Yes

Suitability

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

UL Flammability:	NFPA 262, UL 910 (Plenum)
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
83900 001100	Brown	Reel	100 ft	612825205821
83900 001500	Brown	Reel	500 ft	612825205845
83900 0011000	Brown	Reel	1,000 ft	612825205838

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.300 Revision Date: 04-28-2020
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