



**Product:** [83950](#)

Type JX Thermocouple, 1 Pr #20 Str, FEP Ins Wht, Red, Blk FEP Jkt, 300V CL3P 200C PLTC SUN RES

[Request Sample](#)

**Product Description**

Type JX Thermocouple, 1 Pair 20AWG (7x28) Iron+Constantan, FEP Insulation Wht, Red Color Code, Black FEP Outer Jacket, CL3P 200C PLTC SUN RES

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	No. of Pairs
20	7x28	Iron & Constantan	1

Conductor Count:

**Insulation**

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.01 in

**Color Chart**

Number	Color
1	White & Red

**Outer Shield Material**

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Tri-Laminate (Alum+Poly+Alum)	Beldfoil®	100%	TC - Tinned Copper	20	7x30

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.145 in	0.012 in

**Electrical Characteristics**

**Conductor DCR**

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
Iron	57 Ohm/1000ft	12 Ohm/1000ft
	283 Ohm/1000ft	

**Temperature Range**

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

**Mechanical Characteristics**

Bulk Cable Weight:	18 lbs/1000ft
Min Bend Radius/Minor Axis:	1.5 in

**Standards**

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

## 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:	NFPA262
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
83950 010500	Black	Reel	500 ft	612825205968
83950 0101000	Black	Reel	1,000 ft	612825205951
83950 0105000	Black	Reel	5,000 ft	612825205975

Footnote:	C - CRATE REEL PUT-UP.
Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

## History

Update and Revision:	Revision Number: 0.321 Revision Date: 09-30-2020
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