



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

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

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**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**

**Product Overview**

Suitable Applications:	Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), encoders, control circuits, distributed control
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**Construction Details**

**Conductor**

Element	Number of Element	Size	Stranding	Material
Pair(s)	1	20	7x28	Iron & Constantan

**Insulation**

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene	0.01 in (0.25 mm)	0.052 in (1.3 mm)	White and Red

**Outer Shield**

Shield Type	Material	Coverage	Drainwire Type
Tape	Tri-Laminate (Alum+Poly+Alum)	100%	22 AWG (7x30) TC

**Outer Jacket**

Material	Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.012 in (0.30 mm)	0.145 in (3.68 mm)

**Electrical Characteristics**

**Electricals**

Element	Nom. Conductor DCR
Iron	64 Ohm/1000ft
Constantan	272 Ohm/1000ft (892 Ohm/km)

**Voltage**

UL Voltage Rating
300 V

**Mechanical Characteristics**

**Temperature**

UL Temperature	Operating
200°C	-70°C To +200°C

**Bend Radius**

Stationary Min.	Installation Min.
1.45 in (36.8 mm)	1.45 in (36.8 mm)

Max. Pull Tension:	66 lbs
Bulk Cable Weight:	16 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum)
NEC / UL Compliance:	Article 725, CL3P, PLTC
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ISA MC 96.1-1982 Type JX

## History

Update and Revision:	Revision Number: 0.460 Revision Date: 01-11-2022
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## 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

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