



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

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	No. of Elements	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)

Nom Outer Shield DCR:	2.09 Ohm/1000ft (6.86 Ohm/km)
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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 (30 kg)
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), REACH, 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: 0.595 Revision Date: 04-10-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83950 010500	Black	Reel	500 ft	612825205968	C
83950 0101000	Black	Reel	1,000 ft	612825205951	C
83950 0105000	Black	Reel	5,000 ft	612825205975	C Z

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

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