Belden



Product: 83930

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, …),RTD, control circuits, distributed control system (DCS),programmable logic controller (PLC), Solenoids, Valves, actuators, positioners

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	20 AWG	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 Jacket

Material	Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.012 in (0.30 mm)	0.14 in

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

Max. Pull Tension:	56 lbs (25 kg)
Bulk Cable Weight:	13 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

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: 0.397 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83930 010500	Black	Reel	500 ft	612825205937	C
83930 0101000	Black	Reel	1,000 ft	612825205920	C

Footnote:	C - CRATE REEL PUT-UP.

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