Product: 83951 ⧉

Type JX Thermocouple, 1 Pr #16 Str,FEP Ins Wht, Red, OS, Blk FEP Jkt, 300V CL3P 200C PLTC SUN RES

⧉ Request Sample

Product Description

Type JX Thermocouple, 1 Pair 16AWG (7x24) Iron+Constantan, FEP Insulation Wht, Red Color Code, Overall Beldfoil® Shield, 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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	16	7x24	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)	0.189 in (4.80 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR
Iron	25 Ohm/1000ft
Constantan	107 Ohm/1000ft (351 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.
1.89 in (48.0 mm)	1.89 in (48.0 mm)

Max. Pull Tension:	152 lbs (68.9 kg)
Bulk Cable Weight:	32 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: 0.583 Revision Date: 07-03-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83951 010500	Black	Reel	500 ft	612825205999	C
83951 0101000	Black	Reel	1,000 ft	612825205982	C

Mouser Electronics

Authorized Distributor

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[Belden Wire & Cable](#):

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