Product: 83953 ☑

Type KX Thermocouple, 1 Pr #16 Str, FEP Ins Yel, Red, Yellow FEP Jkt, CL3P 200C PLTC SUN RES

⚏ Request Sample

Product Description

Type KX Thermocouple, 1 Pair 16AWG (7x24) Chromel+Alumel, FEP Insulation Yel, Red Color Code, Yellow 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	Chromel & Alumel

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene	0.01 in (0.25 mm)	0.058 in (1.5 mm)	Yellow 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)	0.187 in (4.75 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR
Chromel	146 Ohm/1000ft
Alumel	59 Ohm/1000ft (190 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.
1.87 in (47.5 mm)	1.87 in (47.5 mm)

Max. Pull Tension:	215 lbs (97.5 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 KX

Product Notes

Notes:	Chromel & Alumel = ""Chromel and Alumel are Hoskins Manufacturing Company trademarks.""

History

Update and Revision:	Revision Number: 0.584 Revision Date: 07-03-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83953 004500	Yellow	Reel	500 ft	612825206040	C
83953 0041000	Yellow	Reel	1,000 ft	612825206033	C

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable](#):

[83953 004500](#) [83953 0041000](#)