



Product: <u>83905</u> ☑

Type K Thermocouple, 1 Pr #20 Sol, FEP Ins Yel, Red, Brn FEP Jkt, CL3P 200C PLTC SUN RES

Product Description

Type K Thermocouple, 1 Pair 20AWG (Solid) Chromel+Alumel, FEP Insulation Yel, Red Color Code, Brown 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	20	Solid	Chromel & Alumel

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)	Yellow and Red

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.012 in (0.30 mm)	0.128 in (3.25 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR
Chromel	400 Ohm/1000ft
Alumel	161 Ohm/1000ft (528 Ohm/km)

Voltage



Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Mil	n.
1.28 in (32.5 mm)	1.28 in (32.5 mn	m)
		_
Max. Pull Tension:	58	8 lb
Bulk Cable Weight:	: 12	2 lbs/

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 K	

Product Notes

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

History

Update and Revision:	Revision Number: 0.573 Revision Date: 01-04-2024	
Opuate and revision.		

Part Numbers

Variants

	Item #	Color	Putup Type	Length	UPC	Footnote
ľ	83905 001100	Brown	Reel	100 ft	612825205852	
ľ	83905 001500	Brown	Reel	500 ft	612825205876	
ľ	83905 0011000	Brown	Reel	1,000 ft	612825205869	С

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