



Product: [83905](#)

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

[Request Sample](#)

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

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Pairs
Pair(s)	20	Solid	Chromel & Alumel	1

Conductor Count: 2

Insulation

Element	Material	Nominal Wall Thickness
Pair(s)	FEP - Fluorinated Ethylene Propylene	0.01 in

Color Chart

Number	Color
Chromel	Yellow
Alumel	Red

Outer Shield Material

Material
No Shield

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.076 x 0.128 in	0.012 in

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR
Chromel	420 Ohm/1000ft
Alumel	169 Ohm/1000ft

Temperature Range

UL Temp Rating:	200°C
Operating Temp Range:	-70°C To +200°C

Mechanical Characteristics

Bulk Cable Weight:	13 lbs/1000ft
Min. Bend Radius/Minor Axis:	1.25 in

Standards

NEC/(UL) Compliance:	CL3P, PLTC
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ANSI Compliance:	MC 96.1-1982 Type K
Other Standards:	ISA MC 96.1-1982 Type K

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Sunlight Resistance:	Yes
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Flammability, LSOH, Toxicity Testing

UL Flammability:	NFPA 262, UL 910 (Plenum)
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Variants

Item #	Color	Put-Up Type	Length	UPC
83905 001100	Brown	Reel	100 ft	612825205852
83905 001500	Brown	Reel	500 ft	612825205876
83905 0011000	Brown	Reel	1,000 ft	612825205869

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

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

Update and Revision:	Revision Number: 0.384 Revision Date: 08-27-2021
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