



Product: [83915](#)

Type E Thermocouple, 1 Pr #20 Sol, FEP Ins Pur, Red, Brn FEP Jkt, 300V CL3P 200C PLTC SUN RES

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Product Description

Type E Thermocouple, 1 Pair 20AWG (Solid) Chromel+Constantan, FEP Insulation Pur, Red Color Code, Brown FEP Outer Jacket, CL3P 200C PLTC SUN RES

Technical Specifications

Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Conductor(s)	2	20 AWG	Solid	Chromel & Constantan

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.01 in (0.25 mm)	0.52 in (13 mm)	Violet, Red

Outer Shield

Material
No Shield

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.012 in (0.30 mm)	0.076 x 0.128 in

Overall Cable Diameter (Nominal): 0.076 x 0.128 in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Chromel	420 Ohm/1000ft	3.5 Amps per Conductor at 30°C
Constantan	308 Ohm/1000ft (1010 Ohm/km)	

Voltage

UL Voltage Rating
200 V

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
0.097 in (2.5 mm)	0.097 in

Max. Pull Tension:	120 lbs (54 kg)
Bulk Cable Weight:	13 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance
Flammability / Reaction to Fire:	NFPA 262 (UL 910)
NEC / UL Compliance:	Article 725, CL3P
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)
Other Standard Compliance(s):	ISA MC 96.1-1982 Type E

Product Notes

Notes:	Chromel & Constantan = ""Constantan is a Hoskins Manufacturing Company trademark.""
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History

Update and Revision:	Revision Number: 0.389 Revision Date: 04-08-2022
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
83915 001500	Brown	Reel	500 ft	612825205913
83915 0011000	Brown	Reel	1,000 ft	612825205906

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