



Product: <u>83915</u> ☑

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

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

Product Overview

Suitable Applications: Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), RTD, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, actuators, positioners

Construction Details

Conductor

Element	No. of Elements	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



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.""

History

Update and Revision:	Revision Number: 0.396 Revision Date: 07-03-2024

Part Numbers

Variants

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

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