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Product: 83955

Type EX Thermocouple, 1 Pr #20 Str, FEP Ins Pur, Red, Purple FEP Jkt, 300V CL3P 200C PLTC SUN RES

Request Sample

Product Description

Type EX Thermocouple, 1 Pair 20AWG (7x28) Chromel+Constantan, FEP Insulation Pur, Red Color Code, Purple FEP Outer Jacket, CL3P 200C PLTC SUN RES

Technical Specifications

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Pairs
Pair	20	7x28	Chromel & Constantan	1

Conductor Count:	2

Insulation

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

Color Chart

Number	Color
Chromel	Purple
Constantan	Red

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Alum / Poly / Alum	Beldfoil®	100 %	TC - Tinned Copper	22	7x30

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.145 in	0.012 in

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
Chromel	387 Ohm/1000ft	12 Ohm/1000ft
Constantan	283 Ohm/1000ft	

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	18 lbs/1000ft
Min Bend Radius/Minor Axis:	1.5 in

Standards

NEC/(UL) Specification:	CL3P, PLTC
Data Category:	MC 96.1-1982 Type EX
ANSI Compliance:	MC 96.1-1982 Type EX

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 II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	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

Flammability, LS0H, Toxicity Testing

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

Plenum/Non-Plenum

Plenum (Y/N):	Yes

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
83955 0071000	Violet	Reel	1,000 ft	612825206064

Footnote:	C - CRATE REEL PUT-UP.

Product Notes

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

History

Update and Revision:	Revision Number: 0.309 Revision Date: 04-28-2020

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