



**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(s)	20	7x28	Chromel & Constantan	1

Conductor Count:	2
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#### Insulation

Element	Material	Nominal Wall Thickness
Pair(s)	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	Tri-Laminate (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) Compliance:	CL3P, PLTC
ANSI Compliance:	MC 96.1-1982 Type EX
Other Compliance:	ISA 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 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	Putup Type	Length	UPC
83955 0071000	Violet	Reel	1,000 ft	612825206064

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

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

Update and Revision:	Revision Number: 0.367 Revision Date: 03-16-2021
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