



Product: [83954](#)

Type TX Thermocouple, 1 Pr #20 Str, FEP Ins Blu, Red, Blue FEP Jkt, 300V CL3P 200C PLTC SUN RES

[Request Sample](#)

Product Description

Type TX Thermocouple, 1 Pair 20AWG (7x28) OFHC+Constantan, FEP Insulation Blu, Red Color Code, Blue FEP Outer Jacket, CL3P 200C PLTC SUN RES

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
20	7x28	Copper & Constantan	1

Conductor Count: 2

Insulation

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.01 in

Color Chart

Number	Color
Copper	Blue
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
Copper	10 Ohm/1000ft	12 Ohm/1000ft
	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
Data Category:	MC 96.1-1982 Type TX
ANSI Compliance:	MC 96.1-1982 Type TX

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
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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
83954 0061000	Blue, Light	Reel	1,000 ft	612825206057

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.315 Revision Date: 09-30-2020
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