

**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**
**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	7x28	Copper & Constantan

**Insulation**

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.01 in (0.25 mm)	0.058 in (1.5 mm)	Blue, Red

**Inner Shield**

Material
No Shield

**Outer Shield**

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC

**Outer Jacket**

Material	Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.012 in (0.30 mm)	0.145 in

Overall Cable Diameter (Nominal): 0.145 in

**Electrical Characteristics**
**Electricals**

Element	Nom. Conductor DCR
Copper	10 Ohm/1000ft
Constantan	283 Ohm/1000ft (928 Ohm/km)

Nom Outer Shield DCR: 12 Ohm/1000ft (39 Ohm/km)

**Voltage**

UL Voltage Rating
300 V

**Mechanical Characteristics**
**Temperature**

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

#### Bend Radius

Stationary Min.	Installation Min.
1.45 in (36.8 mm)	1.45 in

Max. Pull Tension: 41 lbs (19 kg)

Bulk Cable Weight: 18 lbs/1000ft

#### Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	NFPA 262 (UL 910)
NEC / UL Compliance:	Article 725
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

#### History

Update and Revision: Revision Number: 0.407 Revision Date: 09-07-2025

#### Part Numbers

##### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83954 0061000	Blue, Light	Reel	1,000 ft	612825206057	C

Footnote: C - CRATE REEL PUT-UP.

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