



**Product:** [1117A](#)

Type TX Thermocouple, 1 Pr #16 Sol, FEP Ins Blu, Red, OS, Blue FEP Jkt, 300V PLTC CL2P 200C SUN RES

[Request Sample](#)

## Product Description

Type TX Thermocouple, 1 Pair 16AWG (Solid) OFHC+Constantan, FEP Insulation Blu, Red Color Code, Overall Beldfoil® Shield, Blue FEP Outer Jacket, PLTC CL2P 200C 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, ...), Thermocouple, distributed control system (DCS), programmable logic controller (PLC)
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### Construction Details

#### Conductor

Element	Number of Element	AWG	Stranding	Material
Pair(s)	1	16	Solid	Copper & Constantan

#### Insulation

Element	Material	Thickness	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene	0.010 in	Blue & Red

#### Outer Shield Material

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26) TC

#### Outer Jacket Material

Material	Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.012 in	0.170 in

Cable Diameter (Nominal): 0.170 in

### Electrical Characteristics

#### Electricals

Element
Pair(s)

Table Notes: Conductor DCR (Nom): 10 Ohm/1000ft 9Copper), 121 Ohm/1000ft (Constantan)

Nom Outer Shield DCR: 5.5 Ohm/1000ft

#### Voltage

UL Voltage Rating
300 V (PLTC), 300 V (CL3P)

### Mechanical Characteristics

#### Temperature

UL Rating	Operating
200°C	-70°C to +200°C

## Bend Radius

Stationary Min.	Installation Min.
1.75 in	1.7 in

Max. Pull Tension:	83 lbs
Bulk Cable Weight:	32 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Flammability / Fire Resistance:	NFPA 262, UL 910 (Plenum)
NEC / UL Compliance:	Article 725, CL3P, PLTC
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ISA MC 96.1-1982 Type TX

## Product Notes

Notes:	Constantan is a Hoskins Manufacturing Company trademark.
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## History

Update and Revision:	Revision Number: 0.332 Revision Date: 02-19-2021
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