



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	No. of Elements	Size	Stranding	Material
Pair(s)	1	16 AWG	Solid	Copper & Constantan

Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene	0.010 in (0.25 mm)	Blue & Red

Outer Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.012 in (0.30 mm)	0.170 in (4.32 mm)

Overall Cable Diameter (Nominal):	0.170 in (4.32 mm)
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Electrical Characteristics

Electricals

Element
Pair(s)

Electricals Table Notes:	Conductor DCR (Nom): 10 Ohm/1000ft 9Copper, 121 Ohm/1000ft (Constantan)
Nom Outer Shield DCR:	5.5 Ohm/1000ft (18 Ohm/km)

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
1.7 in (43 mm)	1.7 in (43 mm)

Max. Pull Tension:	83 lbs (38 kg)
Bulk Cable Weight:	32 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum)
NEC / UL Compliance:	Article 725, CL3P, PLTC
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), 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: 0.537 Revision Date: 02-20-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1117A 0065000	Blue, Light	Reel	5,000 ft	612825107071	C Z

Footnote:	C - CRATE REEL PUT-UP., Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.
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