




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)
------------------------	---

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.
--------	--

History

Update and Revision:	Revision Number: 0.330 Revision Date: 09-30-2020
----------------------	--

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.