



**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**

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

Conductor Count: 2

**Insulation**

Element	Material	Nominal Wall Thickness
Pair	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	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
CONSTANTAN	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
------------------------------------	-----

### Flammability, LSOH, Toxicity Testing

UL Flammability:	NFPA 262, UL 910 (Plenum)
UL voltage rating:	300 V RMS

### Plenum/Non-Plenum

Plenum (Y/N):	Yes
---------------	-----

### Part Number

#### Variants

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

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

### History

Update and Revision:	Revision Number: 0.309 Revision Date: 04-28-2020
----------------------	--

© 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.