



**Product:** [83952](#)

Type KX Thermocouple, 1 Pr #20 Str, FEP Ins Yel, Red, Yellow FEP Jkt, 300V CL3P 200C PLTC SUN RES

[Request Sample](#)

## Product Description

Type KX Thermocouple, 1 Pair 20AWG (7x28) Chromel+Alumel, FEP Insulation Yel, Red Color Code, Yellow FEP Outer Jacket, CL3P 200C PLTC SUN RES

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Pairs
Pair(s)	20	7x28	Chromel & Alumel	1

Conductor Count:

#### Insulation

Element	Material	Nominal Wall Thickness
Pair(s)	FEP - Fluorinated Ethylene Propylene	0.01 in

#### Color Chart

Number	Color
Chromel	Yellow
Alumel	Red

#### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Tri-Laminate (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
Chromel	387 Ohm/1000ft	12 Ohm/1000ft
Alumel	156 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
----------------------	------------

ANSI Compliance:	MC 96.1-1982 Type KX
Other Compliance:	ISA MC 96.1-1982 Type KX

## 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
83952 004500	Yellow	Reel	500 ft	612825206019
83952 0041000	Yellow	Reel	1,000 ft	612825206002
83952 0045000	Yellow	Reel	5,000 ft	612825206026

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

## Product Notes

Notes:	Chromel & Alumel = ""Chromel and Alumel are Hoskins Manufacturing Company trademarks.""
--------	---

## History

Update and Revision:	Revision Number: 0.372 Revision Date: 02-22-2021
----------------------	--

© 2021 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.