



Product: [1023A](#)

Type TX Thermocouple, 1 Pr #16 Sol, PVC Ins Blu, Red, OS, Blue PVC Jkt, 300V PLTC-ER ITC-ER CMG

Request Sample

Product Description

Type TX Thermocouple, 1 Pair 16AWG (Solid) OFHC+Constantan, PVC Insulation Blu, Red Color Code, Overall Beldfoil® Shield, Blue PVC Outer Jacket, PLTC-ER ITC-ER CMG AWM 2464 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 [in.]	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.021	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	Ripcord
PVC - Polyvinyl Chloride	0.037 in	0.264 in	Yes

Cable Diameter (Nominal):	0.264 in
---------------------------	----------

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR
Pair(s)	4 Ohm/1000ft

Nom Outer Shield DCR:	38 Ohm/1000ft
-----------------------	---------------

Voltage

UL Voltage Rating
300 V (PLTC-ER, CMG, UL AWM 2464), 150 V (ITC-ER)

Mechanical Characteristics

Temperature

UL Rating	Operating
105°C	-30°C to +105°C

Bend Radius

Stationary Min.	Installation Min.
2.5 in	2.6 in

Max. Pull Tension:	85 lbs
Bulk Cable Weight:	38 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Flammability / Fire Resistance:	UL1685 (FT4 Loading), FT4, 1202
NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, PLTC-ER, ITC-ER
AWM Compliance:	2464
CEC / C(UL) Compliance:	CMG
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: 0.360 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.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable:](#)

[1023A 0131000](#) [1023A 01310000](#)