



Product: [3113A](#)

Type TX Thermocouple, 1 Pr #20 Sol, PVC Ins Blu, Red, OS, Blue PVC Jkt, 300V PLTC-ER ITC-ER CMG

[Request Sample](#)

Product Description

Type TX Thermocouple, 1 Pair 20AWG (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 DIR BUR

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	Number of Element	Size	Stranding	Material
Pair(s)	1	20 AWG	Solid	Copper & Constantan

Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.021 in (0.53 mm)	Blue & Red

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.037 in (0.94 mm)	0.226 in (5.74 mm)	Yes

Overall Cable Diameter (Nominal):	0.226 in (5.74 mm)
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Electrical Characteristics

Electricals

Element
Pair(s)

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.

2.3 in (58 mm)	2.3 in (58 mm)
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Max. Pull Tension:	40 lbs (18 kg)
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Bulk Cable Weight:	25 lbs/1000ft
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Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
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Flammability / Reaction to Fire:	UL1685 (FT4 Loading), FT4, 1202
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NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, PLTC, ITC
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AWM Compliance:	AWM 2464
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CEC / C(UL) Compliance:	CMG
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European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
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APAC Compliance:	China RoHS II (GB/T 26572-2011)
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Other Standard Compliance(s):	ISA MC 96.1-1982 Type TX
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Product Notes

Notes:	Constantan is a Hoskins Manufacturing Company trademark.
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History

Update and Revision:	Revision Number: 0.377 Revision Date: 11-09-2022
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
3113A 0135000	Black	Reel	5,000 ft	612825141921

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