



Product: [3112A](#)

Type KX Thermocouple, 1 Pr #20 Sol, PVC Ins Yel, Red, OS, Yellow PVC Jkt, 300V PLTC ITC CMG

[Request Sample](#)

Product Description

Type KX Thermocouple, 1 Pair 20AWG (Solid) Chromel+Alumel, PVC Insulation Yel, Red Color Code, Overall Beldfoil® Shield, Yellow PVC Outer Jacket, PLTC ITC 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)
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	20 AWG	Solid	Chromel & Alumel

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.021 in (0.53 mm)	0.074 in (1.9 mm)	Yellow & 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	Nom. Conductor DCR	Max. Current
Pair(s)	11.3 Ohm/1000ft	3.8 Amps per Conductor at 25°C

Table Notes:	Conductor DCR (Nom): 400.4 Ohm/1000ft (Chromel), 161.1 Ohm/1000ft (Alumel)
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Voltage

UL Voltage Rating
300 V (PLTC, CMG, UL AWM 2464)

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)

Max. Pull Tension:	46 lbs (21 kg)
Bulk Cable Weight:	22 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL 1685 UL Loading, FT4, IEEE 1202
NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, ITC, PLTC
AWM Compliance:	AWM 2464
CEC / C(UL) Compliance:	CMG
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ISA MC 96.1-1982 Type KX

Product Notes

Notes:	Chromel and Alumel are Hoskins Manufacturing Company trademarks.
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History

Update and Revision:	Revision Number: 0.599 Revision Date: 07-03-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
3112A 0041000	Yellow	Reel	1,000 ft	612825141891	C
3112A 0045000	Yellow	Reel	5,000 ft	612825141907	C Z

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