



REPRESENTATIVE IMAGE

Product: [3112A](#)

Type KX Thermocouple, 1 Pr #20 Sol, PVC Ins Yel, Red, OS, Yellow PVC Jkt, 300V PLTC-ER ITC-ER 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-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	AWG	Stranding	Material
Pair(s)	1	20	Solid	Chromel & Alumel

Insulation

Element	Material	Thickness	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.021 in	Yellow & Red

Outer Shield Material

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

Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.037 in	0.226 in	Yes

Cable Diameter (Nominal): 0.226 in

Electrical Characteristics

Electricals

Element
Pair(s)

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

Nom Outer Shield DCR: 10.6 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.
2.1 in	2.3 in

Max. Pull Tension:	40 lbs
Bulk Cable Weight:	22 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 KX

Product Notes

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

Update and Revision:	Revision Number: 0.355 Revision Date: 02-19-2021
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