



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

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Pairs
Pair	20	Solid	Chromel & Alumel	1

Conductor Count:	2
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Insulation

Element	Material	Nominal Wall Thickness
Pair	PVC - Polyvinyl Chloride	0.021 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	Alum / Poly	Beldfoil®	100 %	TC - Tinned Copper	22	7x28

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.226 in	0.037 in	Yes

Construction and Dimensions

Stranding

Twists
6 twist/ft

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
Chromel	400.4 Ohm/1000ft	10.6 Ohm/1000ft
Alumel	161.1 Ohm/1000ft	

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Non-UL Temp Rating:	105°C
UL Temp Rating:	105°C
Operating Temp Range:	-30°C To +105°C

Mechanical Characteristics

Bulk Cable Weight:	26 lbs/1000ft
Max Recommended Pulling Tension:	40 lbs
Min Bend Radius/Minor Axis:	2.1 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMG, ITC-ER, PLTC-ER
CEC/C(UL) Specification:	CMG
UL AWM Style:	2464
Data Category:	MC 96.1-1982 Type KX
ANSI Compliance:	MC 96.1-1982 Type KX

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	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
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Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

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

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.""
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History

Update and Revision:	Revision Number: 0.303 Revision Date: 04-28-2020
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