



Product: [1012A](#)

Type KX Thermocouple, 4 Pr #20+22 Sol, PVC Ins Yel, Red, IS/OS, Yellow PVC Jkt, 300V PLTC-ER ITC-ER CMG

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Product Description

Type KX Thermocouple, 4 Pair 20+22AWG (Solid) Chromel+Alumel, PVC Insulation Yel, Red Color Code, Individual & Overall Beldfoil® Shield, Yellow PVC Outer Jacket, PLTC-ER ITC-ER CMG AWM 2464 SUN RES

Technical Specifications

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Pairs
Pair	20	Solid	Chromel & Alumel			4
Comm		7x30	BC - Bare Copper	.066 in	1	

Conductor Count:	9
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Insulation

Element	Material	Nominal Wall Thickness
Pair	PVC - Polyvinyl Chloride	0.016 in
Comm	PVC - Polyvinyl Chloride	0.019 in

Color Chart

Number	Color
1	Yellow & Red and Numbered 1
2	Yellow & Red and Numbered 2
3	Yellow & Red and Numbered 3
4	Yellow & Red and Numbered 4
5	Orange

Inner 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	7x30

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	20	7x28

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.447 in	0.053 in	Yes

Electrical Characteristics

Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR
10.6 Ohm/1000ft	6.8 Ohm/1000ft

Voltage

UL Voltage Rating

300 V
150 V RMS (Type NPLF)

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	102 lbs/1000ft
Max Recommended Pulling Tension:	159 lbs
Min Bend Radius/Minor Axis:	3.9 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMG, ITC-ER, PLTC-ER
CEC/C(UL) Specification:	CMG
UL AWM Style:	2464
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 - Burial:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1685 UL Loading
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
1012A 0045000	Yellow	Reel	5,000 ft	612825102687

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: 0.329 Revision Date: 04-28-2020
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