



**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

##### 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 |
|------------------------------------|-----|

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 |
|---------------|----|

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."" |
|--------|-----------------------------------------------------------------------------------------|

History

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

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