



Product: [83952](#)

Type KX Thermocouple, 1 Pr #20 Str, FEP Ins Yel, Red, Yellow FEP Jkt, 300V CL3P 200C PLTC SUN RES

[Request Sample](#)

Product Description

Type KX Thermocouple, 1 Pair 20AWG (7x28) Chromel+Alumel, FEP Insulation Yel, Red Color Code, Yellow FEP Outer Jacket, CL3P 200C PLTC SUN RES

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Pairs |
|-----|-----------|------------------|--------------|
| 20 | 7x28 | Chromel & Alumel | 1 |

Conductor Count:

Insulation

| Material | Nominal Wall Thickness |
|--------------------------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.01 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 | Tri-Laminate (Alum+Poly+Alum) | Beldfoil® | 100% | TC - Tinned Copper | 22 | 7x30 |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------------|------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.145 in | 0.012 in |

Electrical Characteristics

Conductor DCR

| Element | Nominal Conductor DCR | Nominal Outer Shield DCR |
|---------|-----------------------|--------------------------|
| Chromel | 387 Ohm/1000ft | 12 Ohm/1000ft |
| | 156 Ohm/1000ft | |

Temperature Range

| | |
|-----------------------|-----------------|
| UL Temp Rating: | 200°C |
| Operating Temp Range: | -70°C To +200°C |

Mechanical Characteristics

| | |
|-----------------------------|---------------|
| Bulk Cable Weight: | 18 lbs/1000ft |
| Min Bend Radius/Minor Axis: | 1.5 in |

Standards

| | |
|----------------------|------------|
| NEC/(UL) Compliance: | CL3P, PLTC |
|----------------------|------------|

| | |
|------------------|----------------------|
| 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 2003/96/EC (BFR): | 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: | NFPA 262, UL 910 (Plenum) |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| | |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|--------|------------|----------|--------------|
| 83952 004500 | Yellow | Reel | 500 ft | 612825206019 |
| 83952 0041000 | Yellow | Reel | 1,000 ft | 612825206002 |
| 83952 0045000 | Yellow | Reel | 5,000 ft | 612825206026 |

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

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|--------|---|
| Notes: | Chromel & AlumeI = ""Chromel and AlumeI are Hoskins Manufacturing Company trademarks."" |
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History

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| Update and Revision: | Revision Number: 0.321 Revision Date: 09-30-2020 |
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