



Product: [83905](#)

Type K Thermocouple, 1 Pr #20 Sol, FEP Ins Yel, Red, Brn FEP Jkt, CL3P 200C PLTC SUN RES

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Product Description

Type K Thermocouple, 1 Pair 20AWG (Solid) Chromel+Alumel, FEP Insulation Yel, Red Color Code, Brown FEP Outer Jacket, CL3P 200C PLTC SUN RES

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Pairs |
|-----|-----------|------------------|--------------|
| 20 | Solid | 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

| Material |
|-----------|
| No Shield |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------------|------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.076 x 0.128 in | 0.012 in |

Electrical Characteristics

Conductor DCR

| Element | Nominal Conductor DCR |
|---------|-----------------------|
| Chromel | 420 Ohm/1000ft |
| | 169 Ohm/1000ft |

Temperature Range

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

Mechanical Characteristics

| | |
|-----------------------------|---------------|
| Bulk Cable Weight: | 13 lbs/1000ft |
| Min Bend Radius/Minor Axis: | 1.25 in |

Standards

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

| | |
|------------------|---------------------|
| Data Category: | MC 96.1-1982 Type K |
| ANSI Compliance: | MC 96.1-1982 Type K |

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 |
|---------------|-------|------------|----------|--------------|
| 83905 001100 | Brown | Reel | 100 ft | 612825205852 |
| 83905 001500 | Brown | Reel | 500 ft | 612825205876 |
| 83905 0011000 | Brown | Reel | 1,000 ft | 612825205869 |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

Product Notes

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

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.306 Revision Date: 07-09-2020 |
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