

# Product: 83953

Type KX Thermocouple, 1 Pr #16 Str, FEP Ins Yel, Red, Yellow FEP Jkt, CL3P 200C PLTC SUN RES

Request Sample

## Product Description

Type KX Thermocouple, 1 Pair 16AWG (7x24) Chromel+Alumel, FEP Insulation Yel, Red Color Code, Yellow FEP Outer Jacket, CL3P 200C PLTC SUN RES

## Technical Specifications

### Product Overview

| | |
|---|---|
| Suitable Applications: | Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...),low voltage digital control (24v, …), encoders, control circuits, distributed control |

### Construction Details

**Conductor**

| Element | No. of Elements | Size | Stranding | Material |
|---|---|---|---|---|
| Pair(s) | 1 | 16 | 7x24 | Chromel & Alumel |

**Insulation**

| Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---|---|---|---|
| FEP - Fluorinated Ethylene Propylene | 0.01 in (0.25 mm) | 0.058 in (1.5 mm) | Yellow and Red |

**Outer Shield**

| Shield Type | Material | Coverage | Drainwire Type |
|---|---|---|---|
| Tape | Tri-Laminate (Alum+Poly+Alum) | 100% | 22 AWG (7x30) TC |

**Outer Jacket**

| Material | Nom. Thickness | Nom. Diameter |
|---|---|---|
| FEP - Fluorinated Ethylene Propylene | 0.012 in (0.30 mm) | 0.187 in (4.75 mm) |

### Electrical Characteristics

**Electricals**

| Element | Nom. Conductor DCR |
|---|---|
| Chromel | 146 Ohm/1000ft |
| Alumel | 59 Ohm/1000ft (190 Ohm/km) |

**Voltage**

| UL Voltage Rating |
|---|
| 300 V |

### Mechanical Characteristics

**Temperature**

| UL Temperature | Operating |
|---|---|
| 200°C | -70°C To +200°C |

**Bend Radius**

| Stationary Min. | Installation Min. |
|---|---|
| 1.87 in (47.5 mm) | 1.87 in (47.5 mm) |

| | |
|---|---|
| Max. Pull Tension: | 215 lbs (97.5 kg) |
| Bulk Cable Weight: | 32 lbs/1000ft |

## Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance |
| Flammability / Reaction to Fire: | NFPA 262, UL 910 (Plenum) |
| NEC / UL Compliance: | Article 725, CL3P, PLTC |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Other Standard Compliance(s): | ISA MC 96.1-1982 Type KX |

## Product Notes

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

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.583 Revision Date: 02-15-2024 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---|---|---|---|---|---|
| 83953 004500 | Yellow | Reel | 500 ft | 612825206040 | C |
| 83953 0041000 | Yellow | Reel | 1,000 ft | 612825206033 | C |

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