



Product: [1116A](#)

Type KX Thermocouple, 1 Pr #16 Sol, FEP Ins Yel, Red, OS, Yellow FEP Jkt, 300V PLTC CL2P 200C SUN RES

[Request Sample](#)

Product Description

Type KX Thermocouple, 1 Pair 16AWG (Solid) Chromel+Alumel, FEP Insulation Yel, Red Color Code, Overall Beldfoil® Shield, Yellow FEP Outer Jacket, PLTC CL2P 200C 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, ...), Thermocouple, distributed control system (DCS), programmable logic controller (PLC) |
|------------------------|--|

Construction Details

Conductor

| Element | Number of Element | AWG | Stranding | Material |
|---------|-------------------|-----|-----------|------------------|
| Pair(s) | 1 | 16 | Solid | Chromel & Alumel |

Insulation

| Element | Material | Thickness | Color Code |
|---------|--------------------------------------|-----------|--------------|
| Pair(s) | FEP - Fluorinated Ethylene Propylene | 0.010 in | Yellow & Red |

Outer Shield Material

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 18 AWG (7x26) TC |

Outer Jacket Material

| Material | Thickness | Nom. Diameter |
|--------------------------------------|-----------|---------------|
| FEP - Fluorinated Ethylene Propylene | 0.012 in | 0.171 in |

Cable Diameter (Nominal): 0.171 in

Electrical Characteristics

Electricals

| Element |
|---------|
| Pair(s) |

| | |
|-----------------------|---|
| Table Notes: | Conductor DCR (Nom): 165 Ohm/1000ft (Chromel), 66 Ohm/1000ft (Alumel) |
| Nom Outer Shield DCR: | 5.5 Ohm/1000ft |

Voltage

| UL Voltage Rating |
|----------------------------|
| 300 V (PLTC), 300 V (CL3P) |

Mechanical Characteristics

Temperature

| UL Rating | Operating |
|-----------|-----------------|
| 200°C | -70°C to +200°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 1.75 in | 1.7 in |

| | |
|--------------------|---------------|
| Max. Pull Tension: | 83 lbs |
| Bulk Cable Weight: | 32 lbs/1000ft |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance |
| Flammability / Fire Resistance: | NFPA 262, UL 910 (Plenum) |
| NEC / UL Compliance: | Article 725, CL3P, PLTC |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), 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

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| Notes: | Chromel and Alumel are Hoskins Manufacturing Company trademarks. |
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History

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| Update and Revision: | Revision Number: 0.358 Revision Date: 09-30-2020 |
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