



Product: [3111A](#)

Type JX Thermocouple, 1 Pr #20 Sol, PVC Ins Wht, Red, OS, Blk PVC Jkt, 300V PLTC-ER ITC-ER CMG

Request Sample

Product Description

Type JX Thermocouple, 1 Pair 20AWG (Solid) Iron+Constantan, PVC Insulation Wht, Red Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC-ER ITC-ER CMG AWM 2464 SUN RES DIR BUR

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 | 20 | Solid | Iron & Constantan |

Insulation

| Element | Material | Thickness [in.] | Color Code |
|---------|--------------------------|-----------------|-------------|
| Pair(s) | PVC - Polyvinyl Chloride | 0.021 | White & Red |

Outer Shield Material

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

Outer Jacket Material

| Material | Thickness | Nom. Diameter | Ripcord |
|--------------------------|-----------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.037 in | 0.226 in | Yes |

| | |
|---------------------------|----------|
| Cable Diameter (Nominal): | 0.226 in |
|---------------------------|----------|

Electrical Characteristics

Electricals

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

| | |
|-----------------------|-----------------|
| Nom Outer Shield DCR: | 10.6 Ohm/1000ft |
|-----------------------|-----------------|

Voltage

| UL Voltage Rating |
|---|
| 300 V (PLTC-ER, CMG, UL AWM 2464), 150 V (ITC-ER) |

Mechanical Characteristics

Temperature

| UL Rating | Operating |
|-----------|-----------------|
| 105°C | -30°C to +105°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.1 in | 2.3 in |

| | |
|--------------------|---------------|
| Max. Pull Tension: | 29 lbs |
| Bulk Cable Weight: | 26 lbs/1000ft |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance |
| Flammability / Fire Resistance: | UL1685 (FT4 Loading), FT4, 1202 |
| NEC / UL Compliance: | Article 725, Article 727, Article 800, CMG, PLTC-ER, ITC-ER |
| AWM Compliance: | 2464 |
| CEC / C(UL) Compliance: | CMG |
| European Directive Compliance: | 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 JX |

Product Notes

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| Notes: | Constantan is a Hoskins Manufacturing Company trademark. |
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History

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| Update and Revision: | Revision Number: 0.350 Revision Date: 09-30-2020 |
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