



Product: [83930](#)

Type JX Thermocouple, 1 Pr #20 Str, FEP Ins Wht, Red, Blk FEP Jkt, 300V
CL3P 200C PLTC SUN RES

[Request Sample](#)

Product Description

Type JX Thermocouple, 1 Pair 20AWG (7x28) Iron+Constantan, FEP Insulation Wht, Red Color Code, Black 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, ...),RTD, control circuits, distributed control system (DCS),programmable logic controller (PLC), Solenoids, Valves, actuators, positioners |
|------------------------|---|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|---------|-----------------|--------|-----------|-------------------|
| Pair(s) | 1 | 20 AWG | 7x28 | Iron & Constantan |

Insulation

| Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------------------------------|-------------------|--------------------------|---------------|
| FEP - Fluorinated Ethylene Propylene | 0.01 in (0.25 mm) | 0.052 in (1.3 mm) | White and Red |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------------------|--------------------|---------------|
| FEP - Fluorinated Ethylene Propylene | 0.012 in (0.30 mm) | 0.14 in |

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR |
|------------|-----------------------------|
| Iron | 64 Ohm/1000ft |
| Constantan | 272 Ohm/1000ft (892 Ohm/km) |

Voltage

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

Mechanical Characteristics

Temperature

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

| | |
|--------------------|----------------|
| Max. Pull Tension: | 56 lbs (25 kg) |
| Bulk Cable Weight: | 13 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 |

| | |
|--------------------------------|---|
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), 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 JX |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.394 Revision Date: 02-15-2024 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 83930 010500 | Black | Reel | 500 ft | 612825205937 | C |
| 83930 0101000 | Black | Reel | 1,000 ft | 612825205920 | C |

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.