



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

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material          | No. of Pairs |
|---------|-----|-----------|-------------------|--------------|
| Pair    | 20  | 7x28      | Iron & Constantan | 1            |

Conductor Count: 2

Insulation

| Element | Material                             | Nominal Wall Thickness |
|---------|--------------------------------------|------------------------|
| Pair    | FEP - Fluorinated Ethylene Propylene | 0.01 in                |

Color Chart

| Number     | Color |
|------------|-------|
| Iron       | White |
| Constantan | Red   |

Outer Shield Material

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

Outer Jacket Material

| Material                             | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------------|------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.082 x 0.14 in  | 0.012 in               |

Electrical Characteristics

Conductor DCR

| Element    | Nominal Conductor DCR |
|------------|-----------------------|
| Iron       | 57 Ohm/1000ft         |
| Constantan | 283 Ohm/1000ft        |

Temperature Range

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

Mechanical Characteristics

|                             |               |
|-----------------------------|---------------|
| Bulk Cable Weight:          | 15 lbs/1000ft |
| Min Bend Radius/Minor Axis: | 1.25 in       |

Standards

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

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

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          |
|---------------|-------|------------|----------|--------------|
| 83930 010500  | Black | Reel       | 500 ft   | 612825205937 |
| 83930 0101000 | Black | Reel       | 1,000 ft | 612825205920 |

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

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.299 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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