

83905 Multi-Conductor - High-Temperature Thermocouple Wire

For more Information
please call

1-800-Belden1



General Description:

20 AWG solid conductors, FEP insulation, unshielded, FEP jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 1 | 20 | Solid | Chromel |
| 1 | 20 | Solid | Alumel |

Total Number of Conductors: 2

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|--------------------------------------|----------------------|
| FEP - Fluorinated Ethylene Propylene | .010 |

Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------------------|
| FEP - Fluorinated Ethylene Propylene |

Overall Cable

Overall Nominal Diameter: 0.076 x 0.128 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 13 lbs/1000 ft.

Min. Bend Radius/Minor Axis: 1.250 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|---------------------|
| NEC/(UL) Specification: | PLTC, CL3P |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU CE Mark: | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MIL Order #39 (China RoHS): | Yes |
| ANSI Specification: | MC 96.1-1982 Type K |

Flame Test

UL Flame Test: UL910 Steiner Tunnel

Plenum/Non-Plenum

Plenum (Y/N): Yes

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Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

| Description | DCR @ 20°C (Ohm/1000 ft) |
|-------------|--------------------------|
| CHROMEL | 420 |
| ALUMEL | 169 |

Notes (Overall)

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

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|--------------------------|
| 83905 001100 | 100 FT | 2.000 LB | BROWN | | 2#20 TYPE K THERMOCOUPLE |
| 83905 0011000 | 1,000 FT | 14.000 LB | BROWN | C | 2#20 TYPE K THERMOCOUPLE |
| 83905 001500 | 500 FT | 7.000 LB | BROWN | | 2#20 TYPE K THERMOCOUPLE |

Notes:

C = CRATE REEL PUT-UP.

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