

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 (mm)
FEP - Fluorinated Ethylene Propylene	0.254

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: 1.930 x 3.251 mm

Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 19.347 Kg/Km

Min. Bend Radius/Minor Axis: 31.750 mm

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/km)
CHROMEL	1378.02
ALUMEL	554.489

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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