

## 83951 Multi-Conductor - High-Temperature Thermocouple Extension Cable



For more Information  
please call

1-800-Belden1

**General Description:**

16 AWG pairs stranded (7x24) conductors, overall Beldfoil shield (100% coverage), FEP insulation, FEP jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
1	16	7x24	Iron & Constantan

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 Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
18	7x26	TC - Tinned Copper

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

**Overall Cable**

Overall Nominal Diameter: 4.801 mm

**Pair****Pair Color Code Chart:**

Number	Color
1	White & Red

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-70°C To +200°C
Non-UL Temperature Rating:	200°C
Bulk Cable Weight:	49.111 Kg/Km
Min. Bend Radius/Minor Axis:	50.800 mm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	PLTC, CL3P
EU Directive 2011/65/EU (ROHS II):	Yes

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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 &amp; Cable): Yes

MII Order #39 (China RoHS): Yes

ANSI Specification: MC 96.1-1982 Type JX

**Flame Test**

UL Flame Test: UL910 Steiner Tunnel

**Plenum/Non-Plenum**

Plenum (Y/N): Yes

**Surface Printing (Overall)**
 Surface Printing: BELDEN 83951 E34972 1PR16 SHIELDED (UL) CL3P 200C PLTC SUN RES  
 THCPL EXTN JX (2 FT, 7 DIGIT SEQUENTIAL NUMBER) FEET
**Electrical Characteristics (Overall)****Nom. Conductor DC Resistance:**

Description	DCR @ 20°C (Ohm/km)
IRON	75.463
CONSTANTAN	370.753

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)
18.3736

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83951 0101000	1,000 FT	35.000 LB	BLACK	C	2#16TYPE JX THERMOCOUPLE
83951 010500	500 FT	17.500 LB	BLACK	C	2#16TYPE JX THERMOCOUPLE

**Notes:**

C = CRATE REEL PUT-UP.

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