

METRIC MEASUREMENT VERSION



83953 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	Chromel & 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 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: 4.750 mm

Pair

Pair Color Code Chart:

Number	Color
1	Yellow & Red

Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +200°C
Non-UL Temperature Rating:	200°C
Bulk Cable Weight:	53.575 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 & Cable):	Yes
MII Order #39 (China RoHS):	Yes
ANSI Specification:	MC 96.1-1982 Type KX

Flame Test

UL Flame Test:	UL910 Steiner Tunnel
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Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Surface Printing (Overall)

Surface Printing:	BELDEN 83953 E34972 1PR16 SHIELDED (UL) CL3P 200C PLTC SUN RES THCPL EXTN KX (2 FT., 7 DIGIT SEQUENTIAL NUMBER) FEET
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Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
CHROMEL	505.274
ALUMEL	203.422

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
18.3736

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
83953 0041000	1,000 FT	34.000 LB	YELLOW	C	2#16TYPE KX THERMOCOUPLE
83953 004500	500 FT	18.000 LB	YELLOW	C	2#16TYPE KX THERMOCOUPLE

Notes:

C = CRATE REEL PUT-UP.

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).