

## 1023A Multi-Conductor - Thermocouple Extension Cable



For more Information  
please call

1-800-Belden1

**General Description:**

16 AWG pairs solid conductors, overall Beldfoil shield (100% coverage), PVC insulation, PVC jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	16	Solid	Copper & Constantan

Total Number of Conductors: 2

**Insulation**

Insulation Material:

Insulation Material	Wall Thickness (mm)	Dia. (mm)
PVC - Polyvinyl Chloride	0.533	2.362

**Outer Shield**

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
18	16x30	TC - Tinned Copper

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 6.706 mm

**Pair**

Pair Color Code Chart:

Number	Color
1	Blue & Red

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +105°C
Non-UL Temperature Rating:	105°C
Bulk Cable Weight:	56.552 Kg/Km
Max. Recommended Pulling Tension:	378.097 N
Min. Bend Radius/Minor Axis:	63.500 mm

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

NEC/(UL) Specification:	CMG, ITC-ER, PLTC-ER
CEC/C(UL) Specification:	CMG

## 1023A Multi-Conductor - Thermocouple Extension Cable

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
MII Order #39 (China RoHS):	Yes
ANSI Specification:	MC 96.1-1982 Type TX

## Flame Test

UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4

## Suitability

Suitability - Burial:	Yes
Sunlight Resistance:	Yes

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Surface Printing (Overall)

Surface Printing:	BELDEN 1023A E34972 1PR16 THCPL EXTN TX SHIELDED (UL) CMG 105C OR PLTC OR ITC SUN RES OR AWM 2464 80C 300V OR C(UL) CMG ---- FT4 IEEE1202 (2 FT, 7 DIGIT SEQUENTIAL NUMBER) FEET
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## Electrical Characteristics (Overall)

## Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
CONSTANTAN	397.001
COPPER	13.124

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
124.678

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1023A 0131000	1,000 FT	47.000 LB	BLUE, DARK	C	2 #16 PVC FS PVC
1023A 01310000	10,000 FT	470.000 LB	BLUE, DARK	C Z	2 #16 PVC FS PVC

## Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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