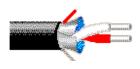
# **Detailed Specifications & Technical Data**



METRIC MEASUREMENT VERSION

# 1000A Multi-Conductor - Thermocouple Extension Cable



For more Information please call

1-800-Belden1



## **Description:**

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

Operating Temperature Range:-30°C To +105°CUL Temperature Rating:105°CBulk Cable Weight:53.575 Kg/KmMax. Recommended Pulling Tension:369.201 NMin. Bend Radius/Minor Axis:63.500 mm		Physical Characteristics (Overall)
1       16       Solid       Iron & Constantan         Total Number of Conductors:       2         Insulation Material:       Insulation Material:       Insulation Material:         PVC - Polyvinyl Chloride       0.4318       2.159         Outer Shield Material:       Outer Shield Material:       Coverage (%)         Belation®       Tape       Aluminum Foil-Polyester Tape       100         Outer Shield Drain Wire Conductor Material       Coverage (%)       Editox®       Tape         Wef Stranding Drain Wire Conductor Material       100       Coverage (%)       Editox®         Vef Stranding Drain Wire Conductor Material       100       Coverage (%)       Editox®         Vef Stranding Drain Wire Conductor Material       100       Coverage (%)       Editox®         Vef Stranding Drain Wire Conductor Material       100       Coverage (%)       Editox®         Outer Jacket Material:       Outer Shield Drain Wire Conductor Material       100       Coverage (%)         Outer Jacket Material:       Outer Shield Color       Coverage (%)       Editox®         PVC - Polyvinyl Chloride       Yes       Overal Acket Ripcord:       Yes         Overall Cable       Overal Mominal Diameter:       6.29		
Total Number of Conductors:     2       Insulation     Insulation Material:     insulation Material:       Insulation     Insulation     2:159       Outer Shield Material:     Outer Shield Material:     Outer Shield Material:       Outer Shield Drain Wire Conductor Material     Coverage (%)       Beleforte:     Tape: Aluminum Foil-Polyester Tape     100       Outer Shield Drain Wire Conductor Material     100     00       Outer Jacket Material:     Outer Jacket Material:     0uter Jacket Material:       Outer Jacket Ripcord:     Yes     Yes       Overall Cable     6.299 mm     Pair       Pair     Pair     Stead     Stead       Mumber Color Code Chart:     Number Color     -30°C To +105°C       UL Temperature Raing:     105°C     Bulk Cable Weight:     53.575 Kg/Km       Max. Recommended Pulling Tension:     369.201 N     Min. Bend Radius/Minor Axis:     63.500 mm		# Pairs AWG Stranding Conductor Material
Insulation Material: Insulation Material: Ver Polyvinyl Chloride 0.4318 2.159 Outer Shield Material: Outer Shield Material: Outer Shield Material: Outer Shield Drain Wire AWG: Auwinum Foil-Polyester Tape 100 Outer Jacket Insulation Wire Conductor Material 18 16x30 TC - Tinned Copper Outer Jacket Material: Outer Jacket Material: Outer Jacket Material: Outer Jacket Ripcord: Yes Overall Cable Overall Cable Pair Pair Color Code Chart: Number Color 1 White & Red Mechanical Characteristics (Overall) Operating Temperature Range: -30°C To +105°C UL Temperature Range: -30°C To +105°C UL Temperature Rating: 105°C Bulk Cable Weight: 53.575 Kg/Km Max. Recommended Pulling Tension: 369.201 N Min. Bend Radius/Minor Axis: 63.500 mm		1 16 Solid Iron & Constantan
Insulation Material: Insulation Material: VC - Polyvinyl Chlonde 0.4318 2.159 Outer Shield Material: Outer Shield Material: Outer Shield Trade Name Type Outer Shield Material Coverage (%) Editfoli® Tape Aluminum Foll-Polyester Tape 100 Outer Shield Drain Wire Conductor Material 18 16x30 TC - Tinned Copper Outer Jacket Material: Outer Jacket Recomended Pulling Tension: 369.201 N Max. Recommended Pulling Tension: 369.201 N Min. Bend Radius/Minor Axis: 63.500 mm		Total Number of Conductors:
PVC - Polyvinyl Chloride     0.4318     2.159       Outer Shield Material:       Outer Shield Trade Name Type     Outer Shield Material:     Coverage (%)       Beldfolk®     Tape Auminum Foll-Polyester Tape     100       Outer Shield Drain Wire AWG:     AWG Stranding Drain Wire Conductor Material     18     18.0       18     16x30     TC - Tinned Copper     Outer Jacket       Outer Jacket Material:     Outer Jacket Ripcord:     Yes       Overall Cable     6.299 mm       PvC - Polyvinyl Chloride     6.299 mm       Pair     Pair Color Code Chart:       Pair Pair Color Code Chart:		
Outer Shield Material:       Outer Shield Material:       Outer Shield Trade Name Type Outer Shield Material Tape [100]       Outer Shield Drain Wire AWG:       AWG Stranding Drain Wire ONG:       AWG Stranding Drain Wire Conductor Material [18] [16:X0] TC - Tinned Copper       Outer Jacket Material:       Outer Jacket Material:       Outer Jacket Ripcord:     Yes       Outer Jacket Ripcord:     Yes       Overall Cable     0.299 mm       Pair     Pair       Pair Color Code Chart:     6.299 mm       Pair Color Code Chart:     Number Color       1     White & Red       Muchanical Characteristics (Overall)     Operating Temperature Range:       -30°C To +105°C     UL Temperature Rating:       Bulk Cable Weight:     53.575 Kg/Km       Max. Recommended Pulling Tension:     369.201 N       Min. Bend Radius/Minor Axis:     63.500 mm		Insulation Material Wall Thickness (mm) Dia. (mm)
Outer Shield Material:     Outer Shield Trade Name Type Outer Shield Material Coverage (%)       Beldfolk®     Tape Aluminum Foll-Polyester Tape 100       Outer Shield Drain Wire AWG:     Ave Stranding Drain Wire AWG:       Ave Stranding Drain Wire Coductor Material     18       18     16x30     TC - Tinned Copper       Outer Jacket Material:     Outer Jacket Material       PVC - Polyvingi Chloride     Yes       Outer Jacket Ripcord:     Yes       Outer Jacket Ripcord:     6.299 mm       Pair     Pair Color Code Chart:       Number Color     1       1     White & Red       Muter Rating:     -30°C To +105°C       UL Temperature Range:     -30°C To +105°C       UL Temperature Rating:     105°C       Bulk Cable Weight:     53.575 Kg/Km       Max. Recommended Pulling Tension:     369.201 N       Min. Bend Radius/Minor Axis:     63.500 mm		PVC - Polyvinyl Chloride 0.4318 2.159
Beldfolt®     Tape     Aluminum Foil-Polyester Tape     100       Outer Shield Drain Wire AWG:     AWG Stranding Drain Wire Conductor Material     18     18     10<		
Outer Shield Drain Wire AWG:       AWG Stranding Drain Wire Conductor Material       18     16x30       18     16x30       Outer Jacket       Outer Jacket Material:       Outer Jacket Material:       PVC - Polyvinyl Chloride       Outer Jacket Ripcord:     Yes       Overall Cable       Overall Color Code Chart:       Number Color       1     White & Red       Mechanical Characteristics (Overall)       Operating Temperature Range:     -30°C To +105°C       UL Temperature Rating:     105°C       Bulk Cable Weight:     53.575 Kg/Km       Max. Recommended Pulling Tension:     369.201 N       Min. Bend Radius/Minor Axis:     63.500 mm	Coverage (%)	Outer Shield Trade Name Type Outer Shield Material
AWG Stranding Drain Wire Conductor Material       18     18x30       TC - Tinned Copper       Outer Jacket Material:       Outer Jacket Material:       PVC - Polyvinyl Chloride       Outer Jacket Ripcord:     Yes       Overall Cable       Overall Nominal Diameter:     6.299 mm       Pair       Pair Color Code Chart:       Number Color       1     White & Red       Mechanical Characteristics (Overall)       Operating Temperature Range:     -30°C To +105°C       UL Temperature Rating:     105°C       Bulk Cable Weight:     53.575 Kg/Km       Max. Recommended Pulling Tension:     369.201 N       Min. Bend Radius/Minor Axis:     63.500 mm	e 100	Beldfoil® Tape Aluminum Foil-Polyester T
18     16x30     TC - Tinned Copper       Outer Jacket     Outer Jacket Material       PVC - Polyvinyl Chloride     Yes       Outer Jacket Ripcord:     Yes       Overall Cable     Overall Nominal Diameter:       Overall Nominal Diameter:     6.299 mm       Pair     Pair Color Code Chart:       Number Color     1       1     White & Red       Mechanical Characteristics (Overall)     Operating Temperature Range:       - 30°C To +105°C     UL Temperature Rating:       105°C     Bulk Cable Weight:       53.575 Kg/Km     Max. Recommended Pulling Tension:       369.201 N     Min. Bend Radius/Minor Axis:		Outer Shield Drain Wire AWG:
Outer Jacket Material       PVC - Polyvinyl Chloride       Outer Jacket Ripcord:     Yes       Outer Jacket Ripcord:     6.299 mm       Overall Cable     6.299 mm       Overall Nominal Diameter:     6.299 mm       Pair     Pair Color Code Chart:       Number Color     1       1     White & Red       Mechanical Characteristics (Overall)     -30°C To +105°C       UL Temperature Range:     -30°C To +105°C       UL Temperature Rating:     105°C       Bulk Cable Weight:     53.575 Kg/Km       Max. Recommended Pulling Tension:     369.201 N       Min. Bend Radius/Minor Axis:     63.500 mm		_
Outer Jacket Material PVC - Polyvinyl Chloride     Yes       Outer Jacket Ripcord:     Yes       Overall Cable Overall Nominal Diameter:     6.299 mm       Pair Pair Pair Color Code Chart:     Mumber Color       1     White & Red       Mumber Color     -30°C To +105°C       UL Temperature Range:     -30°C To +105°C       UL Temperature Rating:     105°C       Bulk Cable Weight:     53.575 Kg/Km       Max. Recommended Pulling Tension:     369.201 N       Min. Bend Radius/Minor Axis:     63.500 mm		
Overall Cable     Overall Nominal Diameter:     6.299 mm       Pair     Pair     Pair Color Code Chart:       Number Color     1     White & Red       Mechanical Characteristics (Overall)        Operating Temperature Range:     -30°C To +105°C       UL Temperature Rating:     105°C       Bulk Cable Weight:     53.575 Kg/Km       Max. Recommended Pulling Tension:     369.201 N       Min. Bend Radius/Minor Axis:     63.500 mm		Outer Jacket Material
Overall Nominal Diameter:     6.299 mm       Pair     Pair Color Code Chart:       Number Color     1       1     White & Red       Mechanical Characteristics (Overall)     -30°C To +105°C       UL Temperature Range:     -30°C To +105°C       UL Temperature Rating:     105°C       Bulk Cable Weight:     53.575 Kg/Km       Max. Recommended Pulling Tension:     369.201 N       Min. Bend Radius/Minor Axis:     63.500 mm	S	Outer Jacket Ripcord:
Pair Color Code Chart:       Number Color     Year Color       1     White & Red       Mechanical Characteristics (Overall)       Mechanical Characteristics (Overall)     -30°C To +105°C       UL Temperature Range:     -30°C To +105°C       UL Temperature Rating:     105°C       Bulk Cable Weight:     53.575 Kg/Km       Max. Recommended Pulling Tension:     369.201 N       Min. Bend Radius/Minor Axis:     63.500 mm		Overall Cable
Pair Color Code Chart:       Number Color       1     White & Red       Mechanical Characteristics (Overall)       Operating Temperature Range:     -30°C To +105°C       UL Temperature Rating:     105°C       Bulk Cable Weight:     53.575 Kg/Km       Max. Recommended Pulling Tension:     369.201 N       Min. Bend Radius/Minor Axis:     63.500 mm	99 mm	Overall Nominal Diameter:
Number Color     1     White & Red       Mechanical Characteristics (Overall)     -30°C To +105°C       Operating Temperature Range:     -30°C To +105°C       UL Temperature Rating:     105°C       Bulk Cable Weight:     53.575 Kg/Km       Max. Recommended Pulling Tension:     369.201 N       Min. Bend Radius/Minor Axis:     63.500 mm		
UL Temperature Rating:105°CBulk Cable Weight:53.575 Kg/KmMax. Recommended Pulling Tension:369.201 N		Number Color
UL Temperature Rating:105°CBulk Cable Weight:53.575 Kg/KmMax. Recommended Pulling Tension:369.201 NMin. Bend Radius/Minor Axis:63.500 mm		Mechanical Characteristics (Overall)
Bulk Cable Weight:53.575 Kg/KmMax. Recommended Pulling Tension:369.201 NMin. Bend Radius/Minor Axis:63.500 mm	°C To +105°C	Operating Temperature Range:
Max. Recommended Pulling Tension:     369.201 N       Min. Bend Radius/Minor Axis:     63.500 mm	5°C	UL Temperature Rating:
Min. Bend Radius/Minor Axis:   63.500 mm	575 Kg/Km	Bulk Cable Weight:
	9.201 N	Max. Recommended Pulling Tension:
Applicable Specifications and Agency Compliance (Overall)	500 mm	Min. Bend Radius/Minor Axis:
	nce (Overall)	Applicable Specifications and Agency Comp
Applicable Standards & Environmental Programs		

NEC/(UL) Specification:

CMG, PLTC, ITC

# **Detailed Specifications & Technical Data**



### METRIC MEASUREMENT VERSION

## 1000A Multi-Conductor - Thermocouple Extension Cable

CEC/C(UL) Specification:	CMG
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 JX
ame Test	
UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4
ICEA Flame Test:	T-29-520g
lenum/Non-Plenum	
Plenum (Y/N):	No

## Surface Printing (Overall)

#### **Electrical Characteristics (Overall)**

#### Nom. Inductance:

Inductance (µH/m)

0.59058

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

167.331

#### Nom. Capacitance Conductor to Conductor:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Capacitance (pF/m)
0	0.00	0.00	0.00	82.03

#### Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
IRON	78.744
CONSTANTAN	397.001

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

124.678

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1000A 0101000	305 MT	19.505 KG	BLACK	С	2 #16 PVC FS PVC
1000A 01010000	3,048 MT	217.725 KG	BLACK	CZ	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.

Revision Number: 1 Revision Date: 11-04-2010

#### © 2012 Belden, Inc All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not





### 1000A Multi-Conductor - Thermocouple Extension Cable

ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.