## **Detailed Specifications & Technical Data**



METRIC MEASUREMENT VERSION



**Physical Characteristics (Overall)** 

## 3084A Multi-Conductor - DeviceBus® for ODVA DeviceNet™

For more Information please call

1-800-Belden1



## **Description:**

22 and 24 AWG stranded tinned copper conductors, PVC insulation (power), FPE insulation (Data), individually foil shielded (100% coverage) and an overall tinned copper braid (65% coverage), sunlight/oil-resistant PVC jacket.

#### Conductor AWG: # Conductors # Pairs AWG Stranding Conductor Material TC - Tinned Copper 4 1 22 19x34 19x36 TC - Tinned Copper 1 24 Insulation Insulation Material: Insulation Material AWG PVC - Polyvinyl Chloride 22 FPE - Foam Polyethylene 24 **Inner Shield Inner Shield Material:** Layer # Type Inner Shield Material Coverage (%) 22 AWG Pair Tape Aluminum Foil-Polyester Tape 100 24 AWG Pair Tape Aluminum Foil-Polyester Tape 100 Inner Shield Drain Wire AWG: AWG 22 Inner Shield Drain Wire Stranding: 19x34 Inner Shield Drain Wire Conductor Material: TC - Tinned Copper **Outer Shield Outer Shield Material:** Type Outer Shield Material Coverage (%) Braid TC - Tinned Copper 65 **Outer Jacket Outer Jacket Material:** Outer Jacket Material PVC - Polyvinyl Chloride **Overall Cable Overall Nominal Diameter:** 7.112 mm Pair Pair Color Code Chart: Number Color 22 AWG Pair Red & Black 24 AWG Pair Blue & White

# **Detailed Specifications & Technical Data**



## METRIC MEASUREMENT VERSION

## 3084A Multi-Conductor - DeviceBus® for ODVA DeviceNet™

Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	61.016 Kg/Km
Max. Recommended Pulling Tension:	289.133 N
Min. Bend Radius/Minor Axis:	69.850 mm
plicable Specifications and Agency C	ompliance (Overall)
oplicable Standards & Environmental Prog	
NEC/(UL) Specification:	CMG, CL2
CEC/C(UL) Specification:	CMG
CSA Specification:	I/II A
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
Other Specification:	ODVA Class 2 Thin
ame Test	
UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4
uitability	
Sunlight Resistance:	Yes
Oil Resistance:	Yes
enum/Non-Plenum	
Plenum (Y/N):	No
ectrical Characteristics (Overall)	
om. Characteristic Impedance:	
Description Impedance (Ohm)	
24 AWG Pair 120	
om. Inductance: Description Inductance (μH/m)	
22 AWG Pair 0.725101	
24 AWG Pair 0.823531	
om. Capacitance Conductor to Conductor:	
Description Freq. (MHz) Start Freq. (MHz) Stop Free	
24 AWG Pair 1	39.372
ominal Velocity of Propagation:	
Description VP (%)	
24 AWG Pair 75	
aximum Delay: Description Freq. (MHz) Start Freq. (MHz) Stop Free	
24 AWG Pair	4.46216
aximum Conductor DC Resistance:	
Description DCR @ 20°C (Ohm/100 m)	
Description DCR @ 20°C (Ohm/100 m)	

## **Detailed Specifications & Technical Data**



### METRIC MEASUREMENT VERSION

## 3084A Multi-Conductor - DeviceBus® for ODVA DeviceNet™

22 AWG	57.4175
24 AWG	91.868

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

10.4992

#### Max. Attenuation:

0	Description	Freq. (MHz)
0.95149	24 AWG Pair Only	.125
1.6405		.500
2.2967		1.000

### Max. Operating Voltage - UL:

Voltage	Description		
300 V RMS	CL2, CMG		
300 V RMS	C(UL) AWM		
600 V RMS	UL AWM		

Max. Recommended Current:

Current

1.7 Amps per conductor @ 25°C (24 AWG) 4 Amps per conductor @ 24 V per NEC CL2 (Power Pair)

### Notes (Overall)

Notes: Flex Life: +/- 90 Degree Flex Test, 2" Diameter, 2 lbs. tension: 2000 Cycles minimum. Meter marks on jacket to aid users in installation. ODVA DevaiceNet is an Open DeviceNet Vendor Association, Inc. trademark.

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3084A T5U1000	305 MT	21.319 KG	GRAY T5U	С	2 #22, 2 #24 SHLD PVC
3084A T5U2000	610 MT	43.545 KG	GRAY T5U	CZ	2 #22, 2 #24 SHLD PVC
3084A T5U500	152 MT	10.659 KG	GRAY T5U	С	2 #22, 2 #24 SHLD PVC
3084A T5U5000	1,524 MT	106.595 KG	GRAY T5U	С	2 #22, 2 #24 SHLD PVC
3084A 0021000	305 MT	21.319 KG	RED	С	2 #22, 2 #24 SH 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: 05-14-2007

#### © 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 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.