



Product: 3083A ☑

DeviceBus®, 2 Pr #15+18 Str TC, PVC&PO Ins, IS+OA TC Brd, CPE Jkt, Chemical Res

# Request Sample

## **Product Description**

DeviceBus® for ODVA DeviceNet™, 2 Pair, 15 (19x28)+18 (19x30) AWG Tinned Copper, PVC&PO Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, CPE Outer Jacket, Chemical Res CMG

## **Technical Specifications**

### **Physical Characteristics (Overall)**

#### Conductor

AWG	Stranding	Material	No. of Pairs
15	19x27	TC - Tinned Copper	1
18	19x30	TC - Tinned Copper	1
Conductor Count:		4	

#### Insulation

Element	Material	Nominal Wall Thickness
15	PVC - Polyvinyl Chloride	0.021 in
18	FPE - Foamed Polyethylene	0.053 in

### Color Chart

Number	Color
1 (15 AWG)	Red & Black
2 (18 AWG)	Blue & White

## Inner Shield Material

Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Aluminum Foil-Polyester Tape	100 %	TC - Tinned Copper	18

#### **Outer Shield Material**

Type	Material	Coverage [%]	Drainwire Construction n x D
Braid	TC - Tinned Copper	65 %	19x30

### **Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
CPE - Chlorinated Polyethylene	0.449 in	0.053 in

## **Electrical Characteristics**

### Conductor DCR

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
15 AWG	3.6 Ohm/1000ft	1.8 Ohm/1000ft
18 AWG	6.9 Ohm/1000ft	

# Capacitance

Element	Nom. Capacitance Conductor to Conductor
18 AWG Pair Only	
	12.0 pF/ft

### Impedance

Nominal Characteristic Impedance
120 Ohm

### Delay

Max. Delay	Max. Delay Description	Nominal Velocity of Propagation (VP) [%]
1.36 ns/ft	18 AWG Pair Only	75 %

### High Freq

Element	Frequency [MHz]	Max./Min. Input Impedance (unFitted)
18 AWG Pair Only	0.125 MHz	120 Ohm
	0.5 MHz	
	1 MHz	

### Current

Element	Max. Recommended Current [A]
15 AWG	8.0 Amps
18 AWG	5.0 Amps

# Voltage

UL Voltage Rating 300 V RMS

## **Temperature Range**

Non-UL Temp Rating:	105°C
UL Temp Rating:	75°C
Operating Temp Range:	-30°C To +105°C

## **Mechanical Characteristics**

Bulk Cable Weight:	119 lbs/1000ft
Max Recommended Pulling Tension:	190 lbs
Min Bend Radius/Minor Axis:	4.8 in

## **Standards**

NEC Articles:	800
NEC/(UL) Specification:	CMG, ITC, PLTC-ER
CEC/C(UL) Specification:	CMG
UL AWM Style:	2464
CPR Euroclass:	Fca
Other Specification:	ODVA Class 2 Thick

## **Applicable Environmental and Other Programs**

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU RoHS Compliance Date (yyyy-mm-dd):	2005-10-13
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Burial:	Yes
Suitability - Sunlight Resistance:	Yes

# Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4

IEEE Flammability:	1202
UL voltage rating:	300 V RMS

### **Part Number**

#### Variants

Item #	Color	UPC	Length	Footnote
3083A 5601000	Yellow, Bright	612825140856	1,000 ft	С
3083A 5602000	Yellow, Bright	612825140863	2,000 ft	С

Footnote: C - CRATE REEL PUT-UP.

### **Product Notes**

N	otes:	Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark. Jacket printed ""1PR16"" instead of ""1PR15"" due to UL requirements for CMG Listing.
---	-------	--

### **History**

Update and Revision:	Revision Number: 0.348 Revision Date: 12-19-2019

#### © 2020 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 here in 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 "ASIS" 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 all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information 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. The 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.