

BELDENCable^{**}

3083A Paired - DeviceBus® for ODVA DeviceNetTM





Metric Version
For more information please call
1-800-Belden1

See Put-ups and Colors

Description:

15 and 18 AWG stranded tinned copper conductors, PVC insulation (power), FPE insulation (data), individually foil shielded (100% coverage) plus an overall tinned copper braid (65% coverage), CPE jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	2
Total Number of Conductors	4

AWG:

Number of Pairs	AWG	Stranding	Conductor Material	Conductor Diameter (mm)
1	15	19x28	TC - Tinned Copper	
1	18	19x30	TC - Tinned Copper	

Stranding	19x28, 19x30
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material PVC - Polyvinyl Chloride, FPE - Foam Polyethylene

Insulation Material (Multi-AWG):

AWG	Layer Number	Material Trade Name	Material	Wall Thickness (mm)	Diameter (mm)
15			PVC - Polyvinyl Chloride		
18			FPE - Foam Polyethylene		

Pair Color Code Chart:

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

INNER SHIELD:

Inner Shield Type	Tape/Tape	
Inner Shield Material:		



BELDENCable

3083A Paired - DeviceBus® for ODVA DeviceNetTM

Layer Number/Descri ption	Material Trade Name	Туре	Material	% Coverage (%)	Stranding	Diameter (mm)	Conductor Material
15 AWG Pair		Tape	Aluminum Foil- Polyester Tape	100			
18 AWG Pair		Tape	Aluminum Foil- Polyester Tape	100			

Inner Shield % Coverage 100 %

OUTER SHIELD:

Outer Shield Type Braid

Outer Shield Material TC - Tinned Copper

Outer Shield %Coverage 65 %

OUTER SHIELD DRAIN WIRE:

Outer Shield Drain Wire AWG

Outer Shield Drain Wire Stranding

19x30

Outer Shield Drain Wire Conductor Material TC - Tinned Copper

OUTER JACKET:

Outer Jacket Material CPE - Chlorinated Polyethylene

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter 12.065 mm

MECHANICAL CHARACTERISTICS:

Operating Temperature Range -20°C To +75°C

Non-UL Temperature Rating 75°C

Bulk Cable Weight 177.096 Kg/Km

Max. Recommended Pulling Tension 845.158 N

Min. Bend Radius (Install) 121.92 mm

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMG, PLTC
CEC/C(UL) Specification	CMG
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005
Other Specification	ODVA Class 2 Thick

FLAME TEST:

UL Flame Test	UL1685 FT4 Loading
CSA Flame Test	FT4

SUITABILITY:



BELDENCable^{**}

3083A Paired - DeviceBus® for ODVA DeviceNetTM

Sunlight Resistance		Yes					
ELECTRICAL CHAR	RACTERISTICS:						
Unaveraged Impedance							
Description	Frequency (MHz)	Start Frequen	ncy (MHz)	Stop Frequency (MHz)	Unaveraged Impedance (Ohms)		
18 AWG Pair Only					120		
Nom. Capacitance Cond	uctor to Conductor:						
Description	Frequency (kHz)	Start Frequen	ncy (kHz)	Stop Frequency (kHz)	Nom. Capacitance Conductor to Conductor (pF/m)		
18 AWG Pair Only	1				39.372		
Nominal Velocity of Pro	pagation :						
Description			Nominal Vel	locity of Propagation (%)			
18 AWG Pair Only			75				
Maximum Delay:							
Description	Frequency (MHz)	Start Freque	ncy (MHz)	Stop Frequency (MHz)	Maximum Delay (ns/m)		
18 AWG Pair Only					4.462		
Nom. Conductor DC Re	sistance @ 20 Deg. C:						
Description			Nom. Conductor DC Resistance @ 20 Deg. C (Ohms/km)				
15 AWG			11.812				
18 AWG			22.639				
Nominal Outer Shield D	C Resistance @ 20 Deg. C	5.906 Ohms/k	cm				
Max. Attenuation (dB/10	00 ft.) :						
Description	Frequency (MHz)	Start Frequen	ncy (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100m)		
18 AWG Pair Only	0.125				0.427		
	0.5				0.853		
	1				1.312		
Max. Operating Voltage	- UL	300 V RMS (I	PLTC, CMG)				
Max. Recommended Cu	rrent :						
Description				nmended Current			
15 AWG		8.0 Amps					
18 AWG 5.0 Amps							
NOTES:							
Notes Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNotes Open DeviceNet Vendor Association, Inc. trademark.					n. ODVA DeviceNet is an		

PUT-UPS AND COLORS:

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
3083A 5601000	2 #15, 2 #18 SH CPE	304.8	62.198	YELLOW, BRIGHT	С

Detailed Specifications & Technical Data



BELDENCable**

3083A Paired - DeviceBus® for ODVA DeviceNetTM

3083A 5602000	2 #15, 2 #18 SH CPE	609.6	126.212	YELLOW, BRIGHT	C

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 10-21-2005

© 2005 Belden Wire & Cable Company All Rights Reserved.

Although Belden Electronics Division ("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,

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 CDT Electronics Division believes this product to be in compliance with the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Mfgs. (San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And EU BFR (Directive 2003/11/EC, 6-Feb-2003). 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 the 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.