



# Part Number: 3085A

DeviceBus®, 2 Pr #22+24 Str TC, PVC&PO Ins, IS+OA TC Brd, CPE Jkt, Chemical Res

# Request Sample

## **Product Description**

DeviceBus® for ODVA DeviceNet™, 2 Pair 22+24AWG (155x44+105x44) Tinned Copper, PVC&PO Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, CPE Outer Jacket, Chemical Res

## **Technical Specifications**

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

#### Conductor

AWG	Stranding	Material	No. of Pairs
22	19x34	TC - Tinned Copper	1
24	19x36	TC - Tinned Copper	1
Condu	Conductor Count:		4
Condu	Conductor Size:		22 AWG

#### Insulation

Element	Material	Nominal Wall Thickness
22 PVC - Polyvinyl Chloride		0.021 in
24	FPE - Foamed Polyethylene	0.026 in

### Color Chart

Number	Color	
22 AWG Pair	Red & Black	
24 AWG Pair	Blue & White	

### Inner Shield Material

Ty	/pe	Material	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Ta	аре	Aluminum Foil-Polyester Tape	100 %	TC - Tinned Copper	22	19x34

#### **Outer Shield Material**

Type	Material	Coverage [%]
Braid	TC - Tinned Copper	65 %

#### **Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
CPE - Chlorinated Polyethylene	0.28 in	0.033 in

### **Electrical Characteristics**

## Conductor DCR

	Element	Max. Conductor DCR	Nominal Conductor DCR	Nominal Outer Shield DCR
	22 AWG	17.5 Ohm/1000ft	Max 17.5 Ohm/1000ft	3.2 Ohm/1000ft
ı	24 AWG	28 Ohm/100m		

#### Capacitance

Element	Nom. Capacitance Conductor to Conductor
24 AWG Pair	

12.0 pF/ft	

## Impedance

Nominal Characteristic Impedance	Nominal Characteristic Impedance Description
100 Ohm	24 AWG Pair
120 Ohm	

## Delay

Max. Delay	Max. Delay Description	Nominal Delay	Nominal Velocity of Propagation (VP) [%]	Nominal Velocity of Propagation (VP) Description
1.36 ns/ft	24 AWG Pair			24 AWG Pair
		1.36 ns/ft	75 %	

### High Freq

Element	Frequency [MHz]
24 AWG Pair Only	0.125 MHz
	0.5 MHz
	1 MHz

### Current

Max. Recommended Current [A]
4 Amps per conductor @ 24 V per NEC CL2 (Power Pair)
4 Amps per conductor @ 24 V per NEC CL2 (Power Pair)

#### Voltage

UL Voltage Rating 300 V RMS

## **Temperature Range**

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

## **Mechanical Characteristics**

Bulk Cable Weight:	46 lbs/1000ft
Max Recommended Pulling Tension:	65 lbs
Min Bend Radius/Minor Axis:	2.75 in

## **Standards**

NEC Articles:	800
NEC/(UL) Specification:	CL2, CMG
CEC/C(UL) Specification:	CMG
CPR Euroclass:	Eca
Other Specification:	ODVA Class 2 Thin

## **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 - Sunlight Resistance:	Yes

# Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
CSA Flammability:	FT4
ISO/IEC Flammability:	IEC 60332-1-2

UL voltage rating:	300 V RMS
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#### Plenum/Non-Plenum

Plenum (Y/N):	No

#### **Part Number**

#### Variants

Item #	Color	UPC	Length	Footnote
3085A 5601000	Yellow, Bright	612825140993	1,000 ft	С
3085A 5602000	Yellow, Bright	612825141006	2,000 ft	С
3085A 5605000	Yellow, Bright	612825141020	5,000 ft	CZ

Footnote: C - CRATE REEL PUT-UP

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

### **Product Notes**

Notes:	Thin. Meter marks on jacket to aid users in installation. ODVA Devicenet is an Open DeviceNet Vendor Association, Inc. trademark.	

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