

4	Product: <u>3084A</u> ☑	
	DeviceBus®, 2 Pr #22+24 Str TC, PVC+FPE Ins, IS+OA TC Brd, PVC Jkt CMG, CL2	¢t,
	# Request Sample	

# **Product Description**

DeviceBus® for ODVA DeviceNet™, 2 Pair 22+24AWG (19x34+19x36) Tinned Copper, PVC+Foam PE Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, PVC Outer Jacket, CMG, CL2

## **Technical Specifications**

## **Product Overview**

Suitable Applications:	harsh environment, ODVA device-level communication, used with CIP (common Industrial Protocol) for control, configuration, and data collection between devices, such as sensors and actuators, and higher level devices such as PLC, and PC in industrial automation, bus topology, etc.	
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## **Construction Details**

#### Conductor

Element	Number of Element	Size	Stranding	Material
Power Pair(s)	1	22 AWG	19x34	TC - Tinned Copper
Data Pair(s)	1	24 AWG	19x36	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Color Code
Power Pair(s)	PVC - Polyvinyl Chloride	0.021 in (0.53 mm)	Red & Black
Data Pair(s)	PE - Polyethylene (Foam)	0.026 in (0.66 mm)	Blue & White

### Inner Shield

Element	Shield Type	Material	Coverage
Power Pair(s)	Таре	Bi-Laminate (Alum+Poly)	100%
Data Pair(s)	Таре	Bi-Laminate (Alum+Poly)	100%

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Braid	Tinned Copper (TC)	65%	22 AWG (19x34) TC

### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.032 in (0.81 mm)	0.280 in (7.11 mm)
Overall Cable Diameter (Nominal):	0.280 in (7.11 mn	ו)

## **Electrical Characteristics**

### Electricals

Element	Nom. Conductor DCR	Max. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Power Pair(s)	17.5 Ohm/1000ft (57.4 Ohm/km)	17.5 Ohm/1000ft (57.4 Ohm/km)				4 Amps per Conductor at 25°C (Power Pair)
Data Pair(s)	28.0 Ohm/1000ft (91.9 Ohm/km)	28 Ohm/100m	12 pF/ft (39 pF/m)	120 Ohm	75%	4 Amps Per Conductor at 24 V (per NEC CL2) (Power Pair)
Nom. Outer S	Nom. Outer Shield DCR: 3.2 Ohm/1000ft (10 Ohm/km)					

Element	Frequency [MHz]	Max. Insertion Loss (Attenuation)
Data Pair(s)	0.125	.95 dB/100ft
	0.5	1.64 dB/100ft
	1	2.3 dB/100ft

#### Voltage

UL Voltage Rating 300 V (CMG), 600 V (UL AWM 20201)

## **Mechanical Characteristics**

Temperature	
UL Temperature Oper	ating
75°C -20°C to	<b>D*06+ d</b>
Bend Radius	
Stationary Min. Installa	
3.36 in (85.3 mm) 3.36 in	
Max. Pull Tension:	65 lbs (29 kg)
Bulk Cable Weight:	155 lbs/1000ft (231 kg/km)

### **Standards and Compliance**

Environmental Suitability:	Indoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1685 FT4 Loading, IEEE 1202 FT4, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 725, Article 800, CL2, CMG
AWM Compliance:	AWM 20201, AWM I/II A
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ODVA Class 2 Thin

#### **Product Notes**

Vendor Association, Inc. trademark.	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 DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.
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## History

Update and Revision: Revision Number: 0.415 Revision Date: 04-08-2022

#### **Part Numbers**

Variants
16

Item #	Color	Putup Type	Length	UPC
3084A T5U500	Gray T5U	Reel	500 ft	612825140900
3084A T5U1000	Gray T5U	Reel	1,000 ft	612825140887
3084A T5U2000	Gray T5U	Reel	2,000 ft	612825140894
3084A T5U5000	Gray T5U	Reel	5,000 ft	612825140917

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