

# Product: <u>3084A</u> ☑

DeviceBus®, 2 Pr #22+24 Str TC, PVC+FPE Ins, IS+OA TC Brd, PVC Jkt, CMG, CL2

😭 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.

### **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	Nom. Insulation Diameter	Color Code
Power Pair(s)	PVC - Polyvinyl Chloride	0.021 in (0.53 mm)	0.072 in (1.8 mm)	Red & Black
Data Pair(s)	PE - Polyethylene (Foam)	0.026 in (0.66 mm)	0.077 in (2.0 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)	
Table Notes:	Jacket OD +/- 0.0	05	
Overall Cable Diameter (Nominal):	0.280 in (7.11 mm	n)	

### **Electrical Characteristics**

# Electricals

Element	Nom. Conductor DCR	Max. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Power Pair(s)	18.2 Ohm/1000ft	17.5 Ohm/1000ft	7.95 Ohm/1000ft (26.1 Ohm/km)				6 Amps per Conductor at 30°C
Data Pair(s)	28.8 Ohm/1000ft (94.5 Ohm/km)	28 Ohm/100m	7.45 Ohm/1000ft (24.4 Ohm/km)	12 pF/ft (39 pF/m)	120 Ohm	75%	4 Amps per Conductor at 30°C
Nom. Outer Shield DCR: 5 Ohm/1000ft (16 Ohm/km)							

### High Frequency

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	Voltage Rating
300 V (CMG, CL2), 600 V (AWM 20201)	300 V (AWM I/II A)

### **Mechanical Characteristics**

### Temperature

UL Temperature	Operating
60°C	-20°C to +60°C
Bend Radius	
Stationary Min.	Installation Min.
2.8 in (71 mm)	2.8 in (71 mm)
Max. Pull Tensior	r: 70.06 I
Bulk Cable Weigh	nt: 44 lbs/

### **Standards and Compliance**

Environmental Suitability:	Indoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL 1685 UL Loading, IEEE 1202 FT4, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: 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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ODVA Class 2 Thin

### **Product Notes**

### **History**

### **Part Numbers**

# 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 T5U2000 Gray T5U Reel 2,000 ft 612825140894 3084A T5U5000 Gray T5U Reel 5,000 ft 612825140917

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