



Product: [1346F](#)

DeviceBus® for ODVA DeviceNet™, 2 Pr #22+24 Str TC, PVC+PO Ins, IS+OA TC Brd, TPE Jkt, CMG

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Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 22+24AWG (154x44+105x44) Tinned Copper, PVC+PO Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, TPE Outer Jacket, CMG

Technical Specifications

Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
22	154x44	TC - Tinned Copper	1
24		TC - Tinned Copper	1

Conductor Count:	4
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Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.016 in
PE - Polyethylene (Foam)	0.026 in

Color Chart

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

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	22	26x36

Outer Shield Material

Type	Material	Coverage [%]
Braid	Tinned Copper (TC)	65%

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.275 in	0.036 in

Electrical Characteristics

Conductor DCR

Element	Max. Conductor DCR	Nominal Conductor DCR	Nominal Outer Shield DCR
22 AWG	17.5 Ohm/1000ft		3.2 Ohm/1000ft
	28 Ohm/100m	28.0 Ohm/1000ft	

Capacitance

Element	Nom. Capacitance Conductor to Conductor
24 AWG Pair	
	12 pF/ft

Impedance

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

Delay

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

High Freq

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

Current

Max. Recommended Current [A]
5 Amps per Conductor at 25°C
5 Amps per Conductor at 25°C (22 AWG)

Voltage

UL Description	UL Voltage Rating
CL2, CMG	300 V RMS

Temperature Range

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

Mechanical Characteristics

Oil Resistance:	Yes
Bulk Cable Weight:	41 lbs/1000ft
Max. Pull Tension:	65 lbs
Min Bend Radius/Minor Axis:	2.75 in

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CL2, CMG
CSA AWM Compliance:	AWM I/II A
CPR Euroclass:	Eca
Other Compliance:	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 CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2006-05-03
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Oil Resistance:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
CSA Flammability:	FT4
IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
1346F T5U1000	Gray T5U	Reel	1,000 ft	612825112334

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	Hi-Flex. Thin. Meter marks on jacket to aid users in installation.
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History

Update and Revision:	Revision Number: 0.358 Revision Date: 02-16-2021
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