BELDEN
SENDING ALL THE RIGHT SIGNALS

Part Number: 3084A

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

Request Sample

Product Description

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

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors	No. of Pairs
22	19x34	TC - Tinned Copper	4	1
24	19x36	TC - Tinned Copper		1

Conductor Count:	4
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

Type	Material	Coverage [%]
Tape	Aluminum Foil-Polyester Tape	100 %

Inner Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.280 in	0.032 in

Outer Shield Material

Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Braid	TC - Tinned Copper	65 %	TC - Tinned Copper	22	19x34 mm

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.573 in	0.045 in

Electrical Characteristics

Conductor DCR

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

Capacitance

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

Inductance

Element	Nominal Inductance
22 AWG Pair	0.221 µH/ft
24 AWG Pair	0.251 µH/ft

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Impedance Description
	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]
4.0 Amps per conductor @ 25°C (Power Pair)
4 Amps per conductor @ 24 V per NEC CL2 (Power Pair)

Voltage

UL Voltage Rating
300 V RMS
600 V RMS
600 V RMS (UL AWM Style 20201)

Temperature Range

UL Temp Rating:	60°C
Operating Temp Range:	-20°C To +60°C

Mechanical Characteristics

Oil Resistance:	Yes
Bulk Cable Weight:	155 lbs/1000ft
Max Recommended Pulling Tension:	65 lbs
Min Bend Radius/Minor Axis:	5.75 in

Standards

NEC Articles:	725, 800
NEC/(UL) Specification:	CL2, CM
CEC/C(UL) Specification:	CMG
UL AWM Style:	20201
CSA AWM Specification:	HLBCD
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 CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Hazardous Locations:	Yes
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
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

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	Footnote
3084A T5U1000	Gray T5U	C
3084A T5U2000	Gray T5U	C Z
3084A T5U500	Gray T5U	C
3084A T5U5000	Gray T5U	C

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

Product Notes

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.