# **Detailed Specifications & Technical Data**



ENGLISH MEASUREMENT VERSION

## 3084A Multi-Conductor - DeviceBus® for ODVA DeviceNet™



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For more Information please call

1-800-Belden1



## **Description:**

22 and 24 AWG stranded tinned copper conductors, PVC insulation (power), FPE insulation (Data), individually foil shielded (100% coverage) and an overall tinned copper braid (65% coverage), sunlight/oil-resistant PVC jacket.

hysical Char	acteris	stics (Over	all)
Conductor			
AWG:			
			ng Conductor Material
4		22 19x34	TC - Tinned Copper
	1	24 19x36	TC - Tinned Copper
Insulation			
Insulation Mat	erial:		
Insulation Ma		AWG	
PVC - Polyvin			
FPE - Foam P	olyethyler	ne 24	
Inner Shield			
Inner Shield M	aterial:		
Layer #		ner Shield Mat	
		uminum Foil-Po	
24 AWG Pair	Tape Al		blyester Tape 100
Inner Shield D	rain Wir	e AWG:	
AWG			
22			
Inner Shield	Drain W	/ire Strandin	<b>a:</b> 19x34
Inner Shield			
Outer Shield Outer Shield M	latarial		
Braid TC - Tir		terial Coverag	
Outer Jacket			
Outer Jacket N		_	
Outer Jacket			
PVC - Polyvin	yl Chloride	e	
Overall Cabling	9		
Overall Nom	inal Dia	meter:	0.280 in.
Pair			
Pair Color Coo	le Chart	:	
Number	Color		
22 AWG Pair	Red & Bl	ack	
24 AWG Pair	Blue & W	/hite	
lechanical Ch	naracte	eristics (O	verall)

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	3084A Multi-Conductor - DeviceBus® for ODVA DeviceNe
Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	41 lbs/1000 ft.
Max. Recommended Pulling Tension:	65 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.750 in.
oplicable Specifications and Agency Co	ompliance (Overall)
pplicable Standards & Environmental Progr	rams
NEC/(UL) Specification:	CMG, CL2
CEC/C(UL) Specification:	CMG
CSA Specification:	I/II A
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Other Specification:	ODVA Class 2 Thin
lame Test	
UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4
uitability	
Sunlight Resistance:	Yes
Oil Resistance:	Yes
lenum/Non-Plenum	
Plenum (Y/N):	No
ectrical Characteristics (Overall)	
om. Characteristic Impedance:	
Description Impedance (Ohm)	
24 AWG Pair 120	
om. Inductance: Description Inductance (µH/ft)	
22 AWG Pair .221	
24 AWG Pair .251	
om. Capacitance Conductor to Conductor:	
Description Freq. (MHz) Start Freq. (MHz) Stop Freq.   24 AWG Pair 1 <td< td=""><td>. (MHz) Capacitance (pF/ft) 12.0</td></td<>	. (MHz) Capacitance (pF/ft) 12.0
ominal Velocity of Propagation:	
Description VP (%)   24 AWG Pair 75	
laximum Delay:	
Description Freq. (MHz) Start Freq. (MHz) Stop Freq.	. (MHz) Delay (ns/ft)
Description (milz) otart freq. (milz) otop freq.	

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## 3084A Multi-Conductor - DeviceBus® for ODVA DeviceNet™

I	22 AWG	17.5
	24 AWG	28.0

#### Nominal Outer Shield DC Resistance:

DCR	@ 20°C	(Ohm/1000 ft)
32		

#### Max. Attenuation:

0	Description	Freq. (MHz)
.29	24 AWG Pair Only	.125
.50		.500
.70		1.000

#### Max. Operating Voltage - UL:

Voltage	Description		
300 V RMS	CL2, CMG		
300 V RMS	C(UL) AWM		
600 V RMS	UL AWM		

#### Max. Recommended Current:

Current

1.7 Amps per conductor @ 25°C (24 AWG) 4 Amps per conductor @ 24 V per NEC CL2 (Power Pair)

#### Notes (Overall)

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 DevaiceNet is an Open DeviceNet Vendor Association, Inc. trademark.

#### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3084A T5U1000	1,000 FT	47.000 LB	GRAY T5U	С	2 #22, 2 #24 SHLD PVC
3084A T5U2000	2,000 FT	96.000 LB	GRAY T5U	CZ	2 #22, 2 #24 SHLD PVC
3084A T5U500	500 FT	22.000 LB	GRAY T5U	С	2 #22, 2 #24 SHLD PVC
3084A 0021000	1,000 FT	47.000 LB	RED	С	2 #22, 2 #24 SH PVC

#### Notes:

C = CRATE REEL PUT-UP

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

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