# **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



# 9842 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-485 Applications

For more Information please call

1-800-Belden1



# **Description:**

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (90% coverage), 24 AWG stranded TC drain wire, PVC jacket

# **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

1	# Pairs	AWG	Stranding	<b>Conductor Material</b>
	2	24	7x32	TC - Tinned Copper

#### Insulation

#### **Insulation Material:**

Insulation Material
PE - Polyethylene

# **Outer Shield**

#### **Outer Shield Material:**

Layer # Outer Shield Trade Name		Type	Outer Shield Material	Coverage (%)	
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100	
2		Braid	TC - Tinned Copper	90	

## Outer Shield Drain Wire AWG:

AWG	Stranding	<b>Drain Wire Conductor Material</b>
24	7x32	TC - Tinned Copper

### **Outer Jacket**

### **Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

#### **Overall Cable**

Overall Nominal Diameter: 0.340 in.

## Pair

### **Pair Color Code Chart:**

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White

### Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)	Direction
1.000	12.000	Left Hand Lay

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C
Bulk Cable Weight:	49 lbs/1000 ft.
Max. Recommended Pulling Tension:	87 lbs.
Min. Bend Radius (Install)/Minor Axis:	3.500 in.

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plicable Standards & Environmental Progr NEC/(UL) Specification:	CM		
NEC/(OL) Specification.	CIVI		
CEC/C(UL) Specification:	CM		
AWM Specification:	UL Style 2919 (30 V 80°C)		
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):	01/01/2004		
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		
num/Non-Plenum			
Plenum (Y/N):	No		
Plenum Number:	82842		

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



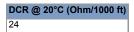
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

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DCR @ 20°C (Ohm/1000 ft)
2.2
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Nom. Attenuation:

Attenuation (dB/100 ft.) 0.6 (@ 1 MHz)

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:



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### **Related Documents:**

No related documents are available for this product

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

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9842 060100	100 FT	5.800 LB	CHROME		2 PR #24 PE SH PVC
9842 0601000	1,000 FT	57.000 LB	CHROME	С	2 PR #24 PE SH PVC
9842 060500	500 FT	29.500 LB	CHROME	С	2 PR #24 PE SH PVC
9842 0605000	5,000 FT	270.000 LB	CHROME		2 PR #24 PE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 05-05-2010

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