## **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



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

For more Information please call

1-800-Belden1



#### **General 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:

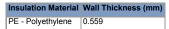
# Pairs	AWG	Stranding	Conductor Material
2	24	7x32	TC - Tinned Copper

**Total Number of Conductors:** 

4

#### Insulation

Insulation Material:



#### **Outer Shield**

Outer Shield Material:

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

### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

#### **Outer Jacket**

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

#### **Overall Cable**

**Overall Nominal Diameter:** 

8.636 mm

#### Pair

Pair Color Code Chart:

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

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C
Bulk Cable Weight:	72.922 Kg/Km
Max. Recommended Pulling Tension:	386.993 N
Min. Bend Radius/Minor Axis:	88.900 mm

### **Applicable Specifications and Agency Compliance (Overall)**

### **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2919 (30 V 80°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes

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	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
Plei	num/Non-Plenum	
	Plenum (Y/N):	No
	Plenum Number:	82842

#### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 41.9968

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 75.463

Nominal Velocity of Propagation:

**VP** (%)

**Nominal Delay:** 

Delay (ns/m) 5.053

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 78.744

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 7.2182

Nom. Attenuation:

Attenuation (dB/100m) Attenuation (MHz)

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

2.1 Amps per conductor @ 25°C

### **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 06010000	10,000 FT	560.000 LB	CHROME		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

C = CRATE REEL PUT-UP.

Revision Number: 4 Revision Date: 08-15-2012

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