# **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:**

Insulation Material	Wall Thickness (mm)
PE - Polyethylene	0.559

#### **Outer Shield**

## **Outer Shield Material:**

ı	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	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

Page 1 of 3 04-30-2013

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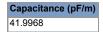
Applicable Specifications and Agency Compliance (Overall)				
Applicable Standards & Environmental Programs				
NEC/(UL) Specification:	CM			
CEC/C(UL) Specification:	CM			
AWM Specification:	UL Style 2919 (30 V 80°C)			
EU Directive 2011/65/EU (ROHS II):	Yes			
EU CE Mark:	Yes			
EU Directive 2000/53/EC (ELV):	Yes			
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			
Plenum/Non-Plenum				
Plenum (Y/N):	No			
Plenum Number:	82842			
Soctrical Characteristics (Overall)				

## **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:



Nom. Attenuation:

Attenuation (	(dB/100m)	Attenuation (MHz)		
1.969		1		

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current

Page 2 of 3 04-30-2013

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2.1 Amps per conductor @ 25°C

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9842 060100	30 MT	2.631 KG	CHROME		2 PR #24 PE SH PVC
9842 0601000	305 MT	25.855 KG	CHROME	С	2 PR #24 PE SH PVC
9842 06010000	3,048 MT	254.013 KG	CHROME		2 PR #24 PE SH PVC
9842 060500	152 MT	13.381 KG	CHROME	С	2 PR #24 PE SH PVC
9842 0605000	1,524 MT	122.471 KG	CHROME		2 PR #24 PE SH PVC

#### Notes:

C = CRATE REEL PUT-UP.

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

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