# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



# 9813 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422



For more Information please call

1-800-Belden1



#### **General Description:**

28 AWG stranded (7x36) TC conductors, polypropylene insulation, overall Beldfoil® (100% coverage) + TC braid shield (90% coverage), 28 AWG stranded TC drain wire, PVC jacket.

# **Physical Characteristics (Overall)**

# Conductor

AWG:

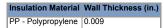


Total Number of Conductors:

26

#### Insulation

Insulation Material:



#### **Outer Shield**

Outer Shield Material:

Layer #	Layer # Outer Shield Trade Name		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
28	7x36	TC - Tinned Copper

#### **Outer Jacket**

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.035

#### **Overall Cable**

**Overall Nominal Diameter:** 

0.336 in.

#### Pair

#### Pair Color Code Chart:

Number	Color		
1	Black & Red		
2	Black & White		
3	Black & Green		
4	Black & Blue		
5	Black & Yellow		
6	Black & Brown		
7	Black & Orange		
8	Red & White		
9	Red & Green		
10	Red & Blue		
11	Red & Yellow		
12	Red & Brown		
13	Red & Orange		

#### **Mechanical Characteristics (Overall)**

Storage Temperature Range:	-35°C To +60°C
Operating Temperature Range:	-30°C To +60°C
UL Temperature Rating:	60°C (UL AWM Style 2960)
Bulk Cable Weight:	62 lbs/1000 ft.
Max. Recommended Pulling Tension:	116 lbs.

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Min. Bend Radius/Minor Axis: 3.500 in. Applicable Specifications and Agency Compliance (Overall) **Applicable Standards & Environmental Programs** NEC/(UL) Specification: AWM Specification: UL Style 2960 (30 V 60°C) EU Directive 2011/65/EU (ROHS II): Yes EU CE Mark: EU Directive 2000/53/EC (ELV): EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004 EU Directive 2002/96/EC (WEEE): EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Flame Test UL1685 UL Loading **UL Flame Test:** 

No

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Plenum/Non-Plenum
Plenum (Y/N):

Nom. Inductance:



Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft) 15.5

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft) 27.5

Nominal Velocity of Propagation:

**VP (%)** 

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 64.9

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 2.2

Max. Operating Voltage - UL:

 Voltage
 Description

 30 V RMS
 UL AWM Style 2960

 150 V RMS
 CL2

Max. Recommended Current:

Current
.65 Amps per conductor @ 25°C

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

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9813 060100	100 FT	7.000 LB	CHROME		13 PR #28 PP SH PVC
9813 0601000	1,000 FT	66.000 LB	CHROME	С	13 PR #28 PP SH PVC
9813 060500	500 FT	34.000 LB	CHROME	С	13 PR #28 PP SH PVC

#### Notes:

C = CRATE REEL PUT-UP.

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Revision Number: 2 Revision Date: 09-14-2012

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