# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 9812 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:

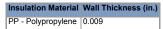


**Total Number of Conductors:** 

24

#### 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:** 

0.319 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				

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +60°C
UL Temperature Rating:	60°C (UL AWM Style 2960)
Bulk Cable Weight:	58 lbs/1000 ft.
Max. Recommended Pulling Tension:	105 lbs.
Min. Bend Radius/Minor Axis:	3.250 in.

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NEC/(UL) Specification:	CL2		
	V		
AWM Specification:	UL Style 2960 (30 V 60°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		
ne Test			
UL Flame Test:	UL1685 UL Loading		
num/Non-Plenum			
Plenum (Y/N):	No		

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm) 100

Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

VP (%) 66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 2.8

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
9812 060100	100 FT	6.700 LB	CHROME		12 PR #28 PP SH PVC
9812 0601000	1,000 FT	62.000 LB	CHROME	С	12 PR #28 PP SH PVC
9812 060500	500 FT	31.000 LB	CHROME	С	12 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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