# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 9809 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:

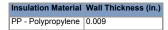


Total Number of Conductors:

18

#### 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
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:** 

0.290 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

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

Operating Temperature Range:	-20°C To +60°C	
UL Temperature Rating:	60°C (UL AWM Style 2960)	
Bulk Cable Weight:	49 lbs/1000 ft.	
Max. Recommended Pulling Tension:	85 lbs.	
Min. Bend Radius/Minor Axis:	3 in.	

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

**Applicable Standards & Environmental Programs** 

NEC/(UL) Specification:	CL2

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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		
Flame Test			
UL Flame Test:	UL1685 UL Loading		
Plenum/Non-Plenum			
Plenum (Y/N):	No		

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

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:

66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 64.9

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

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
9809 060100	100 FT	5.600 LB	CHROME		9 PR #28 PP SH PVC
9809 0601000	1,000 FT	53.000 LB	CHROME	С	9 PR #28 PP SH PVC
9809 060500	500 FT	26.000 LB	CHROME	C	9 PR #28 PP SH PVC

Notes:

C = CRATE REEL PUT-UP.

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

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