# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



## 9836 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422



For more Information please call

1-800-Belden1



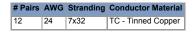
#### **General Description:**

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), 24 AWG stranded TC drain wire, PVC jacket.

## **Physical Characteristics (Overall)**

## Conductor

AWG:

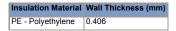


**Total Number of Conductors:** 

24

#### Insulation

#### Insulation Material:



#### **Outer Shield**

#### Outer Shield Material:

Layer #	yer # Outer Shield Trade Name		Outer Shield Material	Coverage (%)	
1	Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100	
2		Braid	TC - Tinned Copper	65	

### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	Stranded	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:** 

11.786 mm

#### Pair

#### Pair Color Code Chart:

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

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	148.820 Kg/Km
Max. Recommended Pulling Tension:	889.640 N
Min. Bend Radius/Minor Axis:	120.650 mm

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pplicable Standards & Environmental Programs				
NEC/(UL) Specification:	CM			
CEC/C(UL) Specification:	СМ			
AWM Specification:	UL Style 2919 (30 V 80°C)			
EU Directive 2011/65/EU (ROHS II):	Yes	Yes		
EU CE Mark:	Yes			
EU Directive 2000/53/EC (ELV):	Yes	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			
me Test				
UL Flame Test:	UL1685 UL Loading			
num/Non-Plenum				
Plenum (Y/N):	No			

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nominal Delay:

Delay (ns/m) 5.2496

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 78.744

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 9.1868

Max. Operating Voltage - UL:

30 V RMS (UL AWM Style 2919) 300 V RMS (CM)

Max. Recommended Current:

1.47 Amps per conductor @ 25°C

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9836 0601000	1,000 FT	107.000 LB	CHROME	С	12 PR #24 PER SH PVC
9836 060500	500 FT	55.000 LB	CHROME	С	12 PR #24 PER SH PVC

Notes: C = CRATE REEL PUT-UP.

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## 9836 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

Revision Number: 2 Revision Date: 09-17-2012

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