# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 9844 Multi-Conductor - Low Capacitance Computer Cables for EIA RS-485 Applications



For more Information please call

1-800-Belden1



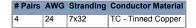
### **General Description:**

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:

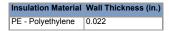


**Total Number of Conductors:** 

8

#### Insulation

Insulation Material:



#### **Outer Shield**

Outer Shield Material:

Layer #	Outer Shield Trade Name	r 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 (in.)
PVC - Polyvinyl Chloride	0.035

#### **Overall Cable**

**Overall Nominal Diameter:** 

0.390 in.

#### 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

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +80°C	
UL Temperature Rating:	80°C (UL AWM Style 2919)	
Bulk Cable Weight:	71 lbs/1000 ft.	
Max. Recommended Pulling Tension:	110 lbs.	
Min. Bend Radius/Minor Axis:	4 in.	

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

#### **Applicable 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	
EU CE Mark:	Yes	

Page 1 of 3 09-11-2017

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	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	
Ple	Plenum/Non-Plenum		
	Plenum (Y/N):	No .	

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

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Capacitance Conductor to Conductor:

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

**VP** (%)

**Nominal Delay:** 

Delay (ns/ft)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nom. Attenuation:

Attenuation (dB/100 ft.) 0.6 (@ 1 MHz)

Max. Operating Voltage - UL:

300 V RMS UL AWM Style 2919

Max. Recommended Current:

1.54 Amps per conductor @ 25°C

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

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9844 0601000	1,000 FT	80.000 LB	CHROME	С	4 PR #24 PE SH PVC
9844 060500	500 FT	40.500 LB	CHROME	С	4 PR #24 PE SH PVC

Notes: C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 03-09-2017

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product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

Page 2 of 3

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Page 3 of 3 09-11-2017