# **Detailed Specifications & Technical Data**

#### METRIC 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:

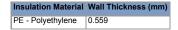
# Pairs	AWG	Stranding	Conductor Material
4	24	7x32	TC - Tinned Copper

**Total Number of Conductors:** 

8

#### Insulation

Insulation Material:



#### **Outer Shield**

Outer Shield Material:

Layer #	r # 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
24	7x32	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:** 

9.906 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

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +80°C	
UL Temperature Rating:	80°C (UL AWM Style 2919)	
Bulk Cable Weight:	105.662 Kg/Km	
Max. Recommended Pulling Tension:	489.302 N	
Min. Bend Radius/Minor Axis:	101.600 mm	

# **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

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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
MI	Order #39 (China RoHS):	Yes
Plenur	n/Non-Plenum	
Ple	enum (Y/N):	No

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

Nom. Characteristic Impedance:

Impedance (Ohm) 120

Р

Nom. Capacitance Conductor to Conductor:

41 9968

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 75.463

Nominal Velocity of Propagation:

**VP** (%) 66

**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) 6.8901

Nom. Attenuation:

Attenuation (dB/100m) 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: 09-10-2012

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