

## 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:

Insulation Material	Wall Thickness (in.)
PE - Polyethylene	0.022

**Outer Shield**

Outer Shield Material:

Layer #	Outer 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:	CM
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 &amp; Cable): Yes

MII Order #39 (China RoHS): Yes

## Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

Impedance (Ohm)

120

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

12.8

## Nom. Capacitance Cond. to Other Conductor &amp; Shield:

Capacitance (pF/ft)

23

## Nominal Velocity of Propagation:

VP (%)

66

## Nominal Delay:

Delay (ns/ft)

1.6

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

24

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.1

## Nom. Attenuation:

Attenuation (dB/100 ft.)

0.6 (@ 1 MHz)

## Max. Operating Voltage - UL:

Voltage Description

300 V RMS UL AWM Style 2919

## Max. Recommended Current:

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	C	4 PR #24 PE SH PVC
9844 060500	500 FT	40.500 LB	CHROME	C	4 PR #24 PE SH PVC

## Notes:

C = CRATE REEL PUT-UP.

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