

## 9843 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
3	24	7x32	TC - Tinned Copper

Total Number of Conductors: 6

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PE - Polyethylene	0.559

#### 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 (mm)
PVC - Polyvinyl Chloride	0.889

#### Overall Cable

Overall Nominal Diameter: 9.144 mm

#### Pair

Pair Color Code Chart:

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White
3	White/Green & Green/White

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	92.268 Kg/Km
Max. Recommended Pulling Tension:	469.285 N
Min. Bend Radius/Minor Axis:	95.250 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2919 (300 V 80°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes

## METRIC MEASUREMENT VERSION

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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
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#### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)
120

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
41.997

#### 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)
7.5463

#### Nom. Attenuation:

Attenuation (dB/100m)
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
9843 060100	100 FT	7.100 LB	CHROME		3 PR #24 PE SH PVC
9843 0601000	1,000 FT	67.000 LB	CHROME	C	3 PR #24 PE SH PVC
9843 060500	500 FT	34.500 LB	CHROME	C	3 PR #24 PE SH PVC
9843 0605000	5,000 FT	355.000 LB	CHROME	C	3 PR #24 PE SH PVC

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 09-10-2012

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