# **Detailed Specifications & Technical Data**

METRIC MEASUREMENT VERSION



# 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	<b>Conductor Material</b>
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		

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pplicable Specifications and Agency C	Compliance (Overall)		
pplicable Standards & Environmental Pro	grams		
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		
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		
lame Test			
UL Flame Test:	UL1685 UL Loading		
lenum/Non-Plenum			
Plenum (Y/N):	No		

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



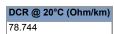
**Nominal Velocity of Propagation:** 



**Nominal Delay:** 



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 5.676

Nom. Attenuation:

Attenuation (dB/100m) 0.6 (@ 1 MHz)

Max. Operating Voltage - UL:

VoltageDescription300 V RMSUL AWM Style 2919

Max. Recommended Current:

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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		BRAID 3 PR #24 PE SH PVC
9843 0601000	1,000 FT	67.000 LB	CHROME	С	BRAID 3 PR #24 PE SH PVC
9843 060500	500 FT	34.500 LB	CHROME	С	BRAID 3 PR #24 PE SH PVC
9843 0605000	5,000 FT	355.000 LB	CHROME	С	BRAID 3 PR #24 PE SH PVC

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 03-09-2017

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