# **Detailed Specifications & Technical Data**

## **ENGLISH MEASUREMENT VERSION**



# 9937 Multi-Conductor - Low-Capacitance Computer Cable for EIA RS-232/423



For more Information please call

1-800-Belden1



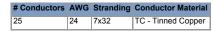
# **General Description:**

24 AWG stranded (7x32) TC conductors, Datalene® insulation, overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), drain wire, PVC jacket.

# **Physical Characteristics (Overall)**

# Conductor

AWG:



**Total Number of Conductors:** 

25

#### Insulation

#### Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Datalene®	FPE - Foam Polyethylene	0.015

#### **Outer Shield**

#### Outer Shield Material:

	Layer#	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
ľ	1	Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100
ľ	2		Braid	TC - Tinned Copper	65

#### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	Stranded	TC - Tinned Copper

#### **Outer Jacket**

# Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.049

#### **Overall Cable**

#### Overall Cabling Color Code Chart:

Number	Color		
1	Black		
2	White		
3	Red		
4	Green		
5	Orange		
6	Blue		
7	White/Black		
8	Red/Black		
9	Green/Black		
10	Orange/Black		
11	Blue/Black		
12	Black/White		
13	Red/White		
14	Green/White		
15	Blue/White		
16	Black/Red		
17	White/Red		
18	Orange/Red		
19	Blue/Red		
20	Red/Green		
21	Orange/Green		
22	Black/White/Red		
23	White/Black/Red		
24	Red/Black/White		
25	Green/Black/White		

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Overall Nominal Diameter: 0.445 in.

# **Mechanical Characteristics (Overall)**

 Operating Temperature Range:
 -30°C To +80°C

 UL Temperature Rating:
 80°C (UL AWM Style 2919)

 Bulk Cable Weight:
 99 lbs/1000 ft.

 Min. Bend Radius/Minor Axis:
 4.500 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
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

#### Flame Test

UL Flame Test: UL1685 UL Loading

# **Electrical Characteristics (Overall)**

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
22

Nominal Velocity of Propagation:

**VP (%)** 78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 24

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 2.77

Max. Operating Voltage - UL:

 Voltage
 Description

 30 V RMS
 UL AWM Style 2919

 300 V RMS
 CM

Max. Recommended Current:

**Current**1.1 Amps per conductor @ 25°C

# Notes (Overall)

Notes: Datalene® insulatin features include a low dielectric constant and a low dissipation factor for high-speed, low-distortin data handling. Physical properties include good crush resistance and light weight.

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9937	1 EA	0.000			0985 508 120/3 M
9937 060100	100 FT	11.600 LB	CHROME	С	25 #24 FHDPE SH PVC
9937 0601000	1,000 FT	108.000 LB	CHROME	С	25 #24 FHDPE SH PVC

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9937 060500	500 FT	54.500 LB	CHROME	С	25 #24 FHDPE SH PVC
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Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 09-17-2012

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