

## 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:

# Conductors	AWG	Stranding	Conductor Material
25	24	7x32	TC - Tinned Copper

Total Number of Conductors: 25

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Datalene®	FPE - Foam Polyethylene	0.381

#### 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	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 (mm)
PVC - Polyvinyl Chloride	1.245

#### 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

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

Overall Nominal Diameter: 11.303 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +80°C  
 UL Temperature Rating: 80°C (UL AWM Style 2919)  
 Bulk Cable Weight: 147.332 Kg/Km  
 Min. Bend Radius/Minor Axis: 114.300 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 (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/m)  
39.372

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

Capacitance (pF/m)  
72.182

#### Nominal Velocity of Propagation:

VP (%)  
78

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)  
78.744

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)  
9.08837

#### 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 060100	100 FT	11.600 LB	CHROME	C	25 #24 FHDPE SH PVC
9937 0601000	1,000 FT	108.000 LB	CHROME	C	25 #24 FHDPE SH PVC
9937 060500	500 FT	54.500 LB	CHROME	C	25 #24 FHDPE SH PVC

## METRIC MEASUREMENT VERSION

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

**Notes:**

C = CRATE REEL PUT-UP.

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