

## 9936 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 |
|--------------|-----|-----------|--------------------|
| 15           | 24  | 7x32      | TC - Tinned Copper |

Total Number of Conductors: 15

#### 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 (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 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 (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.035                     |

#### 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   |

Overall Nominal Diameter: 0.345 in.

### Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 59 lbs/1000 ft.

Min. Bend Radius/Minor Axis: 3.500 in.

## 9936 Multi-Conductor - Low-Capacitance Computer Cable for EIA RS-232/423

### 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 |
|----------------|-------------------|

#### Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)  
12

#### 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)  
3.56

#### Max. Operating Voltage - UL:

Voltage  
30 V RMS (UL AWM Style 2919)  
300 V RMS

#### Max. Recommended Current:

Current  
1.1 Amps per conductor @ 25°C

### Notes (Overall)

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

### Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc           |
|--------------|----------|-------------|--------|-------|---------------------|
| 9936 060100  | 100 FT   | 6.700 LB    | CHROME |       | 15 #24 FHDPE SH PVC |
| 9936 0601000 | 1,000 FT | 63.000 LB   | CHROME | C     | 15 #24 FHDPE SH PVC |
| 9936 060500  | 500 FT   | 33.000 LB   | CHROME | C     | 15 #24 FHDPE SH PVC |

**Notes:**  
C = CRATE REEL PUT-UP.

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