

## 9933 Multi-Conductor - Low-Capacitance Computer Cable for EIA RS-232/423



For more Information  
please call

1-800-Belden1

**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 |
|--------------|-----|-----------|--------------------|
| 8            | 24  | 7x32      | TC - Tinned Copper |

**Insulation****Insulation Material:**

| Insulation Trade Name | Insulation Material     |
|-----------------------|-------------------------|
| Datalene®             | FPE - Foam Polyethylene |

**Outer Shield****Outer Shield Material:**

| Outer Shield Trade Name | Type  | Outer Shield Material        | Coverage (%) |
|-------------------------|-------|------------------------------|--------------|
| Beldfoil®               | Tape  | Aluminum Foil-Polyester Tape | 100          |
|                         | 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    |
|--------------------------|
| PVC - Polyvinyl Chloride |

**Overall Cabling****Overall Cabling Color Code Chart:**

| Number | Color  |
|--------|--------|
| 1      | Black  |
| 2      | White  |
| 3      | Red    |
| 4      | Green  |
| 5      | Brown  |
| 6      | Blue   |
| 7      | Orange |
| 8      | Yellow |

Overall Nominal Diameter: 7.112 mm

**Mechanical Characteristics (Overall)**

|                                        |                          |
|----------------------------------------|--------------------------|
| Operating Temperature Range:           | -30°C To +80°C           |
| UL Temperature Rating:                 | 80°C (UL AWM Style 2919) |
| Bulk Cable Weight:                     | 68.457 Kg/Km             |
| Min. Bend Radius (Install)/Minor Axis: | 71.120 mm                |

## 9933 Multi-Conductor - Low-Capacitance Computer Cable for EIA RS-232/423

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                                       |                           |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification:               | CM                        |
| CEC/C(UL) Specification:              | CM                        |
| AWM Specification:                    | UL Style 2919 (30 V 80°C) |
| 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/m) |
| 39.372             |

## Nom. Capacitance Cond. to Other Conductor &amp; 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) |
| 14.4364             |

## Max. Operating Voltage - UL:

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

## Max. Recommended Current:

|                               |
|-------------------------------|
| Current                       |
| 1.5 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.

## Related Documents:

No related documents are available for this product

## 9933 Multi-Conductor - Low-Capacitance Computer Cable for EIA RS-232/423

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color  | Notes | Item Desc          |
|---------------|----------|-------------|--------|-------|--------------------|
| 9933 060100   | 30 MT    | 2.223 KG    | CHROME |       | 8 #24 FHDPE SH PVC |
| 9933 0601000  | 305 MT   | 20.865 KG   | CHROME | C     | 8 #24 FHDPE SH PVC |
| 9933 06010000 | 3,048 MT | 217.725 KG  | CHROME | C Y   | 8 #24 FHDPE SH PVC |
| 9933 060500   | 152 MT   | 9.525 KG    | CHROME | C     | 8 #24 FHDPE SH PVC |

**Notes:**

C = CRATE REEL PUT-UP.

Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN.MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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