

## 8134 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/485



For more Information  
please call

1-800-Belden1

**General Description:**

28 AWG stranded (7x36) TC conductors, Datalene® insulation, overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), 28 AWG stranded TC drain wire, PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4       | 28  | 7x36      | TC - Tinned Copper |

Total Number of Conductors: 8

**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 w/Shorting Fold | 100          |
| 2       |                         | Braid | TC - Tinned Copper                           | 65           |

**Outer Shield Drain Wire AWG:**

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 28  | 7x36      | TC - Tinned Copper            |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

**Overall Cable**

Overall Nominal Diameter: 7.264 mm

**Pair****Pair Color Code Chart:**

| Number | Color                       |
|--------|-----------------------------|
| 1      | White/Blue & Blue/White     |
| 2      | White/Orange & Orange/White |
| 3      | White/Green & Green/White   |
| 4      | White/Brown & Brown/White   |

**Pair Lay Length & Direction:**

| Lay Length (mm) | Twists (twist/m) |
|-----------------|------------------|
| 21.082          | 47.246           |

**Mechanical Characteristics (Overall)**

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

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

Bulk Cable Weight: 53.575 Kg/Km

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|                              |           |
|------------------------------|-----------|
| Min. Bend Radius/Minor Axis: | 76.200 mm |
|------------------------------|-----------|

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                                       |                           |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification:               | CL2                       |
| 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. Characteristic Impedance:

Impedance (Ohm)

120

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

36.091

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

Capacitance (pF/m)

65.62

## Nominal Velocity of Propagation:

VP (%)

78

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

213.265

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

14.4364

## Max. Operating Voltage - UL:

| Voltage   | Description       |
|-----------|-------------------|
| 30 V RMS  | UL AWM Style 2919 |
| 150 V RMS | CL2               |

## Max. Recommended Current:

Current

0.9 Amps per conductor @ 25°C

## Notes (Overall)

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

**8134 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/485****Put Ups and Colors:**

| Item #       | Putup  | Ship Weight | Color  | Notes | Item Desc             |
|--------------|--------|-------------|--------|-------|-----------------------|
| 8134 060100  | 30 MT  | 1.950 KG    | CHROME |       | 4 PR #28 FHDPE SH PVC |
| 8134 0601000 | 305 MT | 17.690 KG   | CHROME | C     | 4 PR #28 FHDPE SH PVC |
| 8134 060500  | 152 MT | 8.845 KG    | CHROME | C     | 4 PR #28 FHDPE SH PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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