

## 8335 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications



For more Information  
please call

1-800-Belden1

**General Description:**

24 AWG stranded (7x32) tinned copper conductors, semi-rigid PVC insulation, multi-paired cable with overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), PVC jacket.

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

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 5       | 24  | 7x32      | TC - Tinned Copper |

Total Number of Conductors: 10

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

| Insulation Material                     | Wall Thickness (mm) |
|-----------------------------------------|---------------------|
| S-R PVC - Semi-Rigid Polyvinyl Chloride | 0.279               |

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

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.889                    |

**Overall Cable**

Overall Nominal Diameter: 7.493 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   |
| 5      | White/Gray & Gray/White     |

**Mechanical Characteristics (Overall)**

|                              |                          |
|------------------------------|--------------------------|
| Operating Temperature Range: | -30°C To +80°C           |
| UL Temperature Rating:       | 80°C (UL AWM Style 2464) |
| Bulk Cable Weight:           | 77.386 Kg/Km             |
| Min. Bend Radius/Minor Axis: | 76.200 mm                |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMG

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|                                       |                            |
|---------------------------------------|----------------------------|
| CEC/C(UL) Specification:              | CMG                        |
| AWM Specification:                    | UL Style 2464 (300 V 80°C) |
| CSA Specification:                    | AWM I A                    |
| 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): | 10/01/2005                 |
| 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 FT4 Loading |
| CSA Flame Test: | FT4                |

## Plenum/Non-Plenum

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

## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

|                 |
|-----------------|
| Impedance (Ohm) |
| 75              |

## Nom. Capacitance Conductor to Conductor:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 98.43              |

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

|                    |
|--------------------|
| Capacitance (pF/m) |
| 164.05             |

## Nominal Velocity of Propagation:

|        |
|--------|
| VP (%) |
| 60     |

## Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 78.744              |

## Nominal Outer Shield DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 15.0926             |

## Max. Operating Voltage - UL:

|           |
|-----------|
| Voltage   |
| 300 V RMS |

## Max. Recommended Current:

|                               |
|-------------------------------|
| Current                       |
| 1.6 Amps per conductor @ 25°C |

## Put Ups and Colors:

| Item #       | Putup  | Ship Weight | Color  | Notes | Item Desc              |
|--------------|--------|-------------|--------|-------|------------------------|
| 8335 060100  | 30 MT  | 2.722 KG    | CHROME |       | 5 PR #24 PVCR SHLD PVC |
| 8335 0601000 | 305 MT | 25.855 KG   | CHROME | C     | 5 PR #24 PVCR SHLD PVC |
| 8335 060500  | 152 MT | 13.381 KG   | CHROME |       | 5 PR #24 PVCR SHLD PVC |

## METRIC MEASUREMENT VERSION

### 8335 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications

**Notes:**

C = CRATE REEL PUT-UP.

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