# Detailed Specifications & Technical Data

**METRIC MEASUREMENT VERSION**

## 8342 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:**

| # Conductors | # Pairs | AWG | Stranding | Conductor Material |
|---|---|---|---|---|
| 1 | 12 | 24 | 7x32 | TC - Tinned Copper |

| | |
|---|---|
| **Total Number of Conductors:** | 25 |

### 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 | 1.016 |

### Overall Cable

| | |
|---|---|
| **Overall Nominal Diameter:** | 10.338 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 |
| 6 | Red/Blue & Blue/Red |
| 7 | Red/Orange & Orange/Red |
| 8 | Red/Green & Green/Red |
| 9 | Red/Brown & Brown/Red |
| 10 | Red/Gray & Gray/Red |
| 11 | Black/Blue & Blue/Black |
| 12 | Black/Orange & Orange/Black |
| Single Conductor | Gray |

## Mechanical Characteristics (Overall)

| | |
|---|---|
| **Operating Temperature Range:** | -30°C To +80°C |
| **UL Temperature Rating:** | 80°C (UL AWM Style 2464) |
| **Bulk Cable Weight:** | 148.820 Kg/Km |
| **Min. Bend Radius/Minor Axis:** | 107.950 mm |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

| | |
|---|---|
| **NEC/(UL) Specification:** | CMG |
| **CEC/C(UL) Specification:** | CMG |

## 8342 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications

| | |
|---|---|
| **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 |
| **Other Specification:** | C(RU) AWM I, A 80C 300V |

### 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 & 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) |
|---|
| 11.8116 |

**Max. Operating Voltage - UL:**

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

**Max. Recommended Current:**

| Current |
|---|
| 1.1 Amps per conductor @ 25°C |

## Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---|---|---|---|---|---|
| 8342 060100 | 100 FT | 11.000 LB | CHROME | | 12 PR,1#24 PVCR SHLD PVC |
| 8342 0601000 | 1,000 FT | 109.000 LB | CHROME | C | 12 PR,1#24 PVCR SHLD PVC |
| 8342 060500 | 500 FT | 55.000 LB | CHROME | C | 12 PR,1#24 PVCR SHLD PVC |

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

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