# Detailed Specifications & Technical Data

**ENGLISH MEASUREMENT VERSION**

## 8304 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications

For more Information
please call

1-800-Belden1

## Description:

22 AWG stranded (7x30) tinned copper conductors, semi-rigid PVC insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% coverage), PVC jacket.

## Physical Characteristics (Overall)

### Conductor

**AWG:**

| # Pairs | AWG | Stranding | Conductor Material |
|---|---|---|---|
| 4 | 22 | 7x30 | TC - Tinned Copper |

### Insulation

**Insulation Material:**

| Insulation Material |
|---|
| S-R PVC - Semi-Rigid Polyvinyl Chloride |

### 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 |
|---|
| PVC - Polyvinyl Chloride |

### Overall Cable

| | |
|---|---|
| **Overall Nominal Diameter:** | 0.320 in. |

### Pair

**Pair Color Code Chart:**

| Number | Color |
|---|---|
| 1 | Black & Red |
| 2 | Black & White |
| 3 | Black & Green |
| 4 | Black & Blue |

**Pair Lay Length & Direction:**

| Lay Length (in.) | Twists/ft. (twist/ft) |
|---|---|
| 1.000 | 12.000 |

## Mechanical Characteristics (Overall)

| | |
|---|---|
| **Operating Temperature Range:** | -30°C To +80°C |
| **UL Temperature Rating:** | 80°C (UL AWM Style 2464) |
| **Bulk Cable Weight:** | 58 lbs/1000 ft. |
| **Max. Recommended Pulling Tension:** | 102 lbs. |
| **Min. Bend Radius (Install)/Minor Axis:** | 3.200 in. |

## 8304 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

| | |
|---|---|
| **NEC/(UL) Specification:** | CMG |
| **CEC/C(UL) Specification:** | CMG |
| **AWM Specification:** | UL Style 2464 (300 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):** | 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

| | |
|---|---|
| **C(UL) Flame Test:** | FT4 |

### Plenum/Non-Plenum

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

## Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

| Impedance (Ohm) |
|---|
| 70 |

**Nom. Capacitance Conductor to Conductor:**

| Capacitance (pF/ft) |
|---|
| 35 |

**Nom. Capacitance Cond. to Other Conductor & Shield:**

| Capacitance (pF/ft) |
|---|
| 63 |

**Nominal Velocity of Propagation:**

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

**Nom. Conductor DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|---|
| 15.0 |

**Nominal Outer Shield DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|---|
| 4.9 |

**Max. Operating Voltage - UL:**

| Voltage |
|---|
| 300 V RMS (UL AWM Style 2464) |

**Max. Recommended Current:**

| Current |
|---|
| 2.1 Amps per conductor @ 25°C |

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

## 8304 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---|---|---|---|---|---|
| 8304 060100 | 100 FT | 6.700 LB | CHROME | | 4 #22 PR SHLD PVC |
| 8304 0601000 | 1,000 FT | 66.000 LB | CHROME | C | 4 #22 PR SHLD PVC |
| 8304 060500 | 500 FT | 32.500 LB | CHROME | C | 4 #22 PR SHLD PVC |

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

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