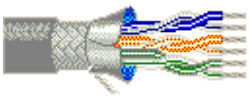
# Detailed Specifications & Technical Data

**ENGLISH MEASUREMENT VERSION**

## 9830 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422



For more Information
please call

1-800-Belden1

## Description:

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), 24 AWG stranded TC drain wire, PVC jacket.

## Physical Characteristics (Overall)

### Conductor

**AWG:**

| # Pairs | AWG | Stranding | Conductor Material |
|---|---|---|---|
| 3 | 24 | 7x32 | TC - Tinned Copper |

### Insulation

**Insulation Material:**

| Insulation Material |
|---|
| PE - Polyethylene |

### 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 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 Cable

| | |
|---|---|
| **Overall Nominal Diameter:** | 0.305 in. |

### Pair

**Pair Color Code Chart:**

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

**Pair Lay Length & Direction:**

| Lay Length (in.) | Twists/ft. (twist/ft) |
|---|---|
| 1.500 | 8.000 |

## Mechanical Characteristics (Overall)

| | |
|---|---|
| **Operating Temperature Range:** | -30°C To +80°C |
| **UL Temperature Rating:** | 80°C (UL AWM Style 2919) |
| **Bulk Cable Weight:** | 47 lbs/1000 ft. |
| **Min. Bend Radius (Install)/Minor Axis:** | 3.200 in. |

## 9830 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & 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. Characteristic Impedance:**

| Impedance (Ohm) |
|---|
| 100 |

**Nom. Capacitance Conductor to Conductor:**

| Capacitance (pF/ft) |
|---|
| 15.5 |

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

| Capacitance (pF/ft) |
|---|
| 27.5 |

**Nominal Velocity of Propagation:**

| VP (%) |
|---|
| 66 |

**Nominal Delay:**

| Delay (ns/ft) |
|---|
| 1.6 |

**Nom. Conductor DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|---|
| 24 |

**Nominal Outer Shield DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|---|
| 4.4 |

**Max. Operating Voltage - UL:**

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

**Max. Recommended Current:**

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

## Related Documents:

## 9830 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

No related documents are available for this product

## Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---|---|---|---|---|---|
| 9830 0601000 | 1,000 FT | 53.000 LB | CHROME | C | 3 PR #24 PER SH PVC |
| 9830 060500 | 500 FT | 26.500 LB | CHROME | C | 3 PR #24 PER SH PVC |

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

Revision Number: 1 Revision Date: 04-17-2008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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.