

## 8325 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications



For more Information  
please call

1-800-Belden1

**General 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 |
|---------|-----|-----------|--------------------|
| 25      | 22  | 7x30      | TC - Tinned Copper |

Total Number of Conductors:

50

**Insulation**

Insulation Material:

| Insulation Material                     | Wall Thickness (in.) |
|-----------------------------------------|----------------------|
| S-R PVC - Semi-Rigid Polyvinyl Chloride | 0.011                |

**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 (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.045                     |

**Overall Cable**

Overall Nominal Diameter:

0.620 in.

**Pair**

Pair Color Code Chart:

| Number | Color          |
|--------|----------------|
| 1      | Black & Red    |
| 2      | Black & White  |
| 3      | Black & Green  |
| 4      | Black & Blue   |
| 5      | Black & Yellow |
| 6      | Black & Brown  |
| 7      | Black & Orange |
| 8      | Red & White    |
| 9      | Red & Green    |
| 10     | Red & Blue     |
| 11     | Red & Yellow   |
| 12     | Red & Brown    |
| 13     | Red & Orange   |
| 14     | Green & White  |
| 15     | Green & Blue   |
| 16     | Green & Yellow |
| 17     | Green & Brown  |
| 18     | Green & Orange |
| 19     | White & Blue   |
| 20     | White & Yellow |
| 21     | White & Brown  |
| 22     | White & Orange |
| 23     | Blue & Yellow  |
| 24     | Blue & Brown   |
| 25     | Blue & Orange  |

# Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

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### Mechanical Characteristics (Overall)

|                              |                          |
|------------------------------|--------------------------|
| Operating Temperature Range: | -30°C To +80°C           |
| UL Temperature Rating:       | 80°C (UL AWM Style 2464) |
| Bulk Cable Weight:           | 233 lbs/1000 ft.         |
| Min. Bend Radius/Minor Axis: | 6.250 in.                |

### 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 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

|                 |     |
|-----------------|-----|
| CSA Flame Test: | FT4 |
|-----------------|-----|

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### 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) |
| 2.9                      |

#### Max. Operating Voltage - UL:

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

#### Max. Recommended Current:

|                               |
|-------------------------------|
| Current                       |
| 1.3 Amps per conductor @ 25°C |

### Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc              |
|--------------|----------|-------------|--------|-------|------------------------|
| 8325 0601000 | 1,000 FT | 248.000 LB  | CHROME | C     | 25 PR #22 PVC SHLD PVC |
| 8325 060500  | 500 FT   | 124.000 LB  | CHROME | C     | 25 PR #22 PVC SHLD PVC |

#### Notes:

C = CRATE REEL PUT-UP.

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