

## 8306 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 |
|---------|-----|-----------|--------------------|
| 6       | 22  | 7x30      | TC - Tinned Copper |

Total Number of Conductors: 12

#### 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 | 0.035                     |

#### Overall Cable

Overall Nominal Diameter: 0.348 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  |

### Mechanical Characteristics (Overall)

|                              |                          |
|------------------------------|--------------------------|
| Operating Temperature Range: | -30°C To +80°C           |
| UL Temperature Rating:       | 80°C (UL AWM Style 2464) |
| Bulk Cable Weight:           | 72 lbs/1000 ft.          |
| Min. Bend Radius/Minor Axis: | 3.500 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                        |

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|                                       |            |
|---------------------------------------|------------|
| 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)  
5

#### Max. Operating Voltage - UL:

Voltage  
300 V RMS

#### Max. Recommended Current:

Current  
2.1 Amps per conductor @ 25°C

### Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc             |
|--------------|----------|-------------|--------|-------|-----------------------|
| 8306 060100  | 100 FT   | 8.000 LB    | CHROME |       | 6 PR #22 PVC SHLD PVC |
| 8306 0601000 | 1,000 FT | 79.000 LB   | CHROME | C     | 6 PR #22 PVC SHLD PVC |
| 8306 060500  | 500 FT   | 39.500 LB   | CHROME | C     | 6 PR #22 PVC SHLD PVC |
| 8306 0605000 | 5,000 FT | 400.000 LB  | CHROME |       | 6 PR #22 PVC SHLD PVC |

#### Notes:

C = CRATE REEL PUT-UP.

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