# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



## 8302 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 |
|---------|-----|-----------|--------------------|
| 2       | 22  | 7x30      | TC - Tinned Copper |

Total Number of Conductors:

#### 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®               | Таре  | 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 | 0.889 |      |           |      |

### **Overall Cable**

Overall Nominal Diameter: 7.112 mm

#### Pair

Pair Color Code Chart:

| Number | Color         |
|--------|---------------|
| 1      | Black & Red   |
| 2      | Black & White |

## **Mechanical Characteristics (Overall)**

| Operating Temperature Range: | -30°C To +80°C           |
|------------------------------|--------------------------|
| UL Temperature Rating:       | 80°C (UL AWM Style 2464) |
| Bulk Cable Weight:           | 56.552 Kg/Km             |
| Min. Bend Radius/Minor Axis: | 76.200 mm                |

## 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                        |

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|     | CA Prop 65 (CJ for Wire & Cable): | Yes |
|-----|-----------------------------------|-----|
|     | MII Order #39 (China RoHS):       | Yes |
| Fla | me Test                           |     |
|     | CSA Flame Test:                   | FT4 |
| Ple | num/Non-Plenum                    |     |
|     | Plenum (Y/N):                     | No  |
|     |                                   |     |

#### **Electrical Characteristics (Overall)**

Nom. Inductance:

Inductance (µH/m) 0.574175

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 131.24

Nom. Capacitance Cond. to Other Conductor & Shield:

Nominal Velocity of Propagation:

**VP** (%) 60

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 18.7017

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current

2.4 Amps per conductor @ 25°C

### **Put Ups and Colors:**

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc             |
|--------------|----------|-------------|--------|-------|-----------------------|
| 8302 060100  | 100 FT   | 4.600 LB    | CHROME |       | 2 PR #22 PVC SHLD PVC |
| 8302 0601000 | 1,000 FT | 42.000 LB   | CHROME | С     | 2 PR #22 PVC SHLD PVC |
| 8302 060500  | 500 FT   | 20.500 LB   | CHROME | С     | 2 PR #22 PVC SHLD PVC |
| 8302 0605000 | 5,000 FT | 200.000 LB  | CHROME |       | 2 PR #22 PVC SHLD PVC |

C = CRATE REEL PUT-UP.

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