

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

Total Number of Conductors: 4

**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: 0.280 in.

**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: 38 lbs/1000 ft.

Min. Bend Radius/Minor Axis: 3 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)

## 8302 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications

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 &amp; 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. Inductance:

Inductance (μH/ft)

.175

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

40

## Nom. Capacitance Cond. to Other Conductor &amp; Shield:

Capacitance (pF/ft)

72

## 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)

5.7

## 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 | C     | 2 PR #22 PVC SHLD PVC |
| 8302 060500  | 500 FT   | 20.500 LB   | CHROME | C     | 2 PR #22 PVC SHLD PVC |
| 8302 0605000 | 5,000 FT | 200.000 LB  | CHROME |       | 2 PR #22 PVC SHLD PVC |

## Notes:

C = CRATE REEL PUT-UP.

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