

## 88104 Multi-Conductor - Low Cap. Computer Cable for EIA RS-232/422/485 Applications



For more Information  
please call

1-800-Belden1

**Description:**

24 AWG stranded (7x32) tinned copper conductors, plenum, foam FEP insulation, twisted pairs, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, fluorocopolymer jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4       | 24  | 7x32      | TC - Tinned Copper |

Total Number of Conductors: 8

**Insulation****Insulation Material:**

| Insulation Material                        | Wall Thickness (in.) |
|--------------------------------------------|----------------------|
| FFEP - Foam Fluorinated Ethylene Propylene | 0.015                |

**Outer Shield****Outer Shield Material:**

| Outer Shield Trade Name | Type | Outer Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

**Outer Shield Drain Wire AWG:**

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24  | 7x32      | TC - Tinned Copper            |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material  | Nom. Wall Thickness (in.) |
|------------------------|---------------------------|
| PVDF - Fluorocopolymer | 0.014                     |

**Overall Cable**

Overall Nominal Diameter: 0.259 in.

**Pair****Pair Color Code Chart:**

| Number | Color                       |
|--------|-----------------------------|
| 1      | White/Blue & Blue/White     |
| 2      | White/Orange & Orange/White |
| 3      | White/Green & Green/White   |
| 4      | White/Brown & Brown/White   |

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -20°C To +150°C

Bulk Cable Weight: 34 lbs/1000 ft.

Max. Recommended Pulling Tension: 49 lbs.

Min. Bend Radius/Minor Axis: 2.750 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

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|                         |     |
|-------------------------|-----|
| NEC/(UL) Specification: | CMP |
|-------------------------|-----|

|                          |     |
|--------------------------|-----|
| CEC/C(UL) Specification: | CMP |
|--------------------------|-----|

|             |     |
|-------------|-----|
| 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): | 04/01/2005 |
|---------------------------------------|------------|

|                                 |     |
|---------------------------------|-----|
| 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**

|                |          |
|----------------|----------|
| UL Flame Test: | NFPA 262 |
|----------------|----------|

|                 |     |
|-----------------|-----|
| CSA Flame Test: | FT6 |
|-----------------|-----|

**Plenum/Non-Plenum**

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)

100

**Nom. Inductance:**

Inductance (μH/ft)

0.21

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)

12.95

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

Capacitance (pF/ft)

23.3

**Nominal Velocity of Propagation:**

VP (%)

78

**Nominal Delay:**

Delay (ns/ft)

1.3

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

24

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

14

**Max. Operating Voltage - UL:**

Voltage

300 V RMS

**Max. Recommended Current:**

Current

1.54 Amps per conductor @ 25°C

**Put Ups and Colors:**

## 88104 Multi-Conductor - Low Cap. Computer Cable for EIA RS-232/422/485 Applications

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc        |
|---------------|----------|-------------|-------|-------|------------------|
| 88104 0081000 | 1,000 FT | 38.000 LB   | GRAY  | C     | 4#24 PR FS SOLEF |
| 88104 008500  | 500 FT   | 17.000 LB   | GRAY  | C     | 4#24 PR FS SOLEF |

**Notes:**

C = CRATE REEL PUT-UP.

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