# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 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.

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# **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

| # Pairs | AWG | Stranding | <b>Conductor Material</b> |
|---------|-----|-----------|---------------------------|
| 4       | 24  | 7x32      | TC - Tinned Copper        |

Total Number of Conductors:

#### 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®               | Таре | Aluminum Foil-Polyester Tape | 100          |

#### **Outer Shield Drain Wire AWG:**

| AWG | Stranding | <b>Drain Wire Conductor Material</b> |
|-----|-----------|--------------------------------------|
| 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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| CMP        |
|------------|
| CMP        |
| Yes        |
| Yes        |
| Yes        |
| 04/01/2005 |
| Yes        |
| Yes        |
| Yes        |
| Yes        |
|            |
| NFPA 262   |
| FT6        |
|            |
| Yes        |
|            |

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 100             |

Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



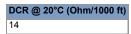
**Nominal Delay:** 



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current
1.54 Amps per conductor @ 25°C

# **Put Ups and Colors:**

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

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-20-2012

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