# **Detailed Specifications & Technical Data**

METRIC MEASUREMENT VERSION



### 82502 Multi-Conductor - Computer Cable for EIA RS-232 Applications



For more Information please call

1-800-Belden1



### **General Description:**

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

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### **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

| # Pairs | AWG | Stranding | <b>Conductor Material</b> |
|---------|-----|-----------|---------------------------|
| 2       | 24  | 7x32      | TC - Tinned Copper        |

Total Number of Conductors:

#### Insulation

#### **Insulation Material:**

| Insulation Material                  | Wall Thickness (mm) |
|--------------------------------------|---------------------|
| FEP - Fluorinated Ethylene Propylene | 0.1524              |

#### **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 |    | Stranding | <b>Drain Wire Conductor Material</b> |  |  |
|---------------|----|-----------|--------------------------------------|--|--|
|               | 24 | 7x32      | TC - Tinned Copper                   |  |  |

### **Outer Jacket**

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

| <b>Outer Jacket Trade Name</b> | Outer Jacket Material                 | Nom. Wall Thickness (mm) |
|--------------------------------|---------------------------------------|--------------------------|
| Flamarrest®                    | LS PVC - Low Smoke Polyvinyl Chloride | 0.3556                   |

#### **Overall Cable**

Overall Nominal Diameter: 4.115 mm

#### Pair

### Pair Color Code Chart:

| N | umber | Color         |
|---|-------|---------------|
| 1 |       | Black & White |
| 2 |       | Black & Red   |

### **Mechanical Characteristics (Overall)**

| Operating Temperature Range:      | 0°C To +60°C |
|-----------------------------------|--------------|
| Bulk Cable Weight:                | 20.835 Kg/Km |
| Max. Recommended Pulling Tension: | 120.101 N    |
| Min. Bend Radius/Minor Axis:      | 44.450 mm    |

# **Applicable Specifications and Agency Compliance (Overall)**

#### **Applicable Standards & Environmental Programs**

| CMP |
|-----|
|     |

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### 82502 Multi-Conductor - Computer Cable for EIA RS-232 Applications

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

Inductance (µH/m) 0.55777

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 82.025

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 147.645

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 79.0721

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 49.215

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current
1.5 Amps per conductor @ 25°C

## **Put Ups and Colors:**

| Item #         | Putup  | Ship Weight | Color   | Notes | Item Desc              |
|----------------|--------|-------------|---------|-------|------------------------|
| 82502 877U1000 | 305 MT | 7.258 KG    | NATURAL |       | 2 PR #24 FEP FS FLMRST |
| 82502 877U500  | 152 MT | 3.629 KG    | NATURAL |       | 2 PR #24 FEP FS FLMRST |
| 82502 8771000  | 305 MT | 7.258 KG    | NATURAL | С     | 2 PR #24 FEP FS FLMRST |

Notes:

C = CRATE REEL PUT-UP.

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#### METRIC MEASUREMENT VERSION



### 82502 Multi-Conductor - Computer Cable for EIA RS-232 Applications

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