

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, Flammarrest® jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 2 | 24 | 7x32 | TC - Tinned Copper |

Total Number of Conductors: 4

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® | 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 Trade Name | Outer Jacket Material | Nom. Wall Thickness (mm) |
|-------------------------|---------------------------------------|--------------------------|
| Flammarrest® | LS PVC - Low Smoke Polyvinyl Chloride | 0.3556 |

Overall Cable

Overall Nominal Diameter: 4.115 mm

Pair

Pair Color Code Chart:

| Number | 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

NEC/(UL) Specification: CMP

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| | |
|---------------------------------------|------------|
| 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 ($\mu\text{H/m}$) |
| 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 | 1,000 FT | 16.000 LB | NATURAL | | 2 PR #24 FEP FS FLMRST |
| 82502 877U500 | 500 FT | 8.000 LB | NATURAL | | 2 PR #24 FEP FS FLMRST |
| 82502 8771000 | 1,000 FT | 16.000 LB | NATURAL | C | 2 PR #24 FEP FS FLMRST |

Notes:

C = CRATE REEL PUT-UP.

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