

## 82841 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable

For more Information  
please call

1-800-Belden1

**Description:**

Low cap 24 AWG stranded (7x32) TC conductors, plenum, foam FEP insulation, twisted pairs, overall Beldfoil (100% coverage) + TC braid shield (90% coverage), 24 AWG stranded TC drain wire, Flamarrest® jacket.

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

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 1       | 24  | 7x32      | TC - Tinned Copper |

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

| Insulation Trade Name | Insulation Material                        |
|-----------------------|--------------------------------------------|
| Teflon®               | FFEP - Foam Fluorinated Ethylene Propylene |

**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           | 90           |

**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                 |
|-------------------------|---------------------------------------|
| Flamarrest®             | LS PVC - Low Smoke Polyvinyl Chloride |

**Overall Cable**

**Overall Nominal Diameter:** 0.204 in.

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

| Number | Color                   |
|--------|-------------------------|
| 1      | White/Blue & Blue/White |

**Pair Lay Length & Direction:**

| Lay Length (in.) | Twists/ft. (twist/ft) |
|------------------|-----------------------|
| 2.000            | 6.000                 |

**Mechanical Characteristics (Overall)**

|                                               |                 |
|-----------------------------------------------|-----------------|
| <b>Operating Temperature Range:</b>           | 0°C To +75°C    |
| <b>Bulk Cable Weight:</b>                     | 30 lbs/1000 ft. |
| <b>Max. Recommended Pulling Tension:</b>      | 45.700 lbs.     |
| <b>Min. Bend Radius (Install)/Minor Axis:</b> | 2 in.           |

## 82841 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| 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): | 10/01/2005 |
| 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 |
| C(UL) Flame Test: | FT6      |

## Plenum/Non-Plenum

|                    |      |
|--------------------|------|
| Plenum (Y/N):      | Yes  |
| Non-Plenum Number: | 9841 |

## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

Impedance (Ohm)

120

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

12

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

Capacitance (pF/ft)

22

## Nominal Velocity of Propagation:

VP (%)

76

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

24

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

3.1

## Max. Operating Voltage - UL:

Voltage

300 V RMS

## Max. Recommended Current:

Current

4 Amps per conductor @ 25°C

## Notes (Overall)

**Notes:** Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

**82841 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable****Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color   | Notes | Item Desc               |
|---------------|----------|-------------|---------|-------|-------------------------|
| 82841 8771000 | 1,000 FT | 28.000 LB   | NATURAL | C     | 1 PR #24 FFEPR SH FLRST |
| 82841 877500  | 500 FT   | 14.500 LB   | NATURAL |       | 1 PR #24 FFEPR SH FLRST |
| 82841 8775000 | 5,000 FT | 135.000 LB  | NATURAL |       | 1 PR #24 FFEPR SH FLRST |

**Notes:**

C = CRATE REEL PUT-UP.

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