

## 7837A Multi-Conductor - T1/DS1 Central Office Interconnect/Cross Connect Cable



For more Information  
please call

1-800-Belden1

**General Description:**

22 AWG solid tinned copper conductors, twisted pairs, Datalene® insulation, individually shielded with 100% Beldfoil® shield, 24 AWG solid tinned copper drain wire each pair, PVC jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 1       | 22  | Solid     | TC - Tinned Copper | .0254      |

Total Number of Conductors: 2

**Insulation**

Insulation Material:

| Insulation Trade Name | Insulation Material                         |
|-----------------------|---------------------------------------------|
| Datalene®             | PO w/Foam PO - Polyolefin w/Foam Polyolefin |

**Inner Shield**

Inner Shield Material:

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

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 24  |

Inner Shield Drain Wire Stranding: Solid

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

**Outer Shield**

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

**Overall Cable**

Overall Nominal Diameter: 0.202 in.

**Pair**

Pair Color Code Chart:

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

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 16 lbs/1000 ft.

Max. Recommended Pulling Tension: 15.600 lbs.

Min. Bend Radius/Minor Axis: 2 in.

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

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2000/53/EC (ELV): Yes

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|                                       |            |
|---------------------------------------|------------|
| EU Directive 2002/95/EC (RoHS):       | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| EU Directive 2002/96/EC (WEEE):       | Yes        |
| EU Directive 2003/11/EC (BFR):        | Yes        |
| CA Prop 65 (CJ for Wire & Cable):     | Yes        |
| MIL Order #39 (China RoHS):           | Yes        |

## Flame Test

|                |                   |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

## Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

|                 |
|-----------------|
| Impedance (Ohm) |
| 100.000         |

## Nom. Inductance:

|                    |
|--------------------|
| Inductance (μH/ft) |
| 0.24               |

## Nom. Capacitance Conductor to Conductor:

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 14.5                |

## Nominal Velocity of Propagation:

|        |
|--------|
| VP (%) |
| 72     |

## Nom. Conductor DC Resistance:

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 16.7                     |

## Nom. Attenuation:

|                           |
|---------------------------|
| Attenuation (dB/1000 ft.) |
| 4.3 @ 772 KHz             |

## Max. Operating Voltage - UL:

|           |
|-----------|
| Voltage   |
| 300 V RMS |

## Max. Recommended Current:

|                               |
|-------------------------------|
| Current                       |
| 4.4 Amps per conductor @ 25°C |

|                                 |     |
|---------------------------------|-----|
| Differential Impedance @ 1 MHz: | 105 |
|---------------------------------|-----|

## Notes (Overall)

**Notes:** Single conductors are dual insulated. The outer layer of insulation must be stripped off before attaching modular connectors. Use a stripping tool such as Cooper Tools Xcelite model 103-S, or equivalent with a mechanical stop to avoid nicking the inner insulation. RJ-45 Compatible.

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color  | Notes | Item Desc           |
|---------------|----------|-------------|--------|-------|---------------------|
| 7837A 0601000 | 1,000 FT | 18.000 LB   | CHROME | C     | 2 #22 PP/FPE FS PVC |
| 7837A 0602000 | 2,000 FT | 36.000 LB   | CHROME | C     | 2 #22 PP/FPE FS PVC |

## Notes:

C = CRATE REEL PUT-UP.

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