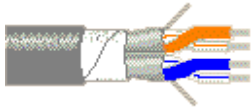


## 7838A Multi-Conductor - T1/DS1 Central Office Interconnect/Cross Connect Cable

For more Information  
please call

1-800-Belden1



### 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.) |
|---------|-----|-----------|--------------------|------------|
| 2       | 22  | Solid     | TC - Tinned Copper | .0254      |

#### 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 Jacket

##### Outer Jacket Material:

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

#### Overall Cable

Overall Nominal Diameter: 0.202 x 0.360 in.

#### Pair

##### Pair Color Code Chart:

| Number | Color                 |
|--------|-----------------------|
| 1      | Blue & White/Blue     |
| 2      | Orange & White/Orange |

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 32.800 lbs/1000 ft.

Max. Recommended Pulling Tension: 31.200 lbs.

Min. Bend Radius (Install)/Minor Axis: 2 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

## 7838A Multi-Conductor - T1/DS1 Central Office Interconnect/Cross Connect Cable

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CM         |
| CEC/C(UL) Specification:              | CM         |
| EU Directive 2000/53/EC (ELV):        | Yes        |
| 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        |
| MII Order #39 (China RoHS):           | Yes        |

### Flame Test

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

### Plenum/Non-Plenum

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

## Electrical Characteristics (Overall)

### 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

3.5 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.

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color  | Notes | Item Desc                   |
|---------------|----------|-------------|--------|-------|-----------------------------|
| 7838A 0601000 | 1,000 FT | 37.000 LB   | CHROME | C     | 2 FS PR #22 PP/FPE PVC PARA |
| 7838A 0602000 | 2,000 FT | 74.000 LB   | CHROME | C     | 2 FS PR #22 PP/FPE PVC PARA |

## 7838A Multi-Conductor - T1/DS1 Central Office Interconnect/Cross Connect Cable

**Notes:**

C = CRATE REEL PUT-UP.

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