

## 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. (mm)
1	22	Solid	TC - Tinned Copper	0.64516

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: 5.131 mm

#### Pair

Pair Color Code Chart:

Number	Color
1	Blue & White

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 23.811 Kg/Km

Max. Recommended Pulling Tension: 69.392 N

Min. Bend Radius/Minor Axis: 50.800 mm

### 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

## METRIC MEASUREMENT VERSION

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

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
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#### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)
100.000

#### Nom. Inductance:

Inductance (µH/m)
0.78744

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
47.5745

#### Nominal Velocity of Propagation:

VP (%)
72

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
54.7927

#### Nom. Attenuation:

Attenuation (dB/100m)
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
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### 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 Xcellite 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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