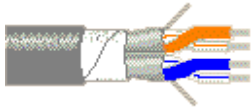


## 7838A Multi-Conductor - T1/DS1 Central Office Interconnect/Cross Connect Cable

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 Cabling

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
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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## 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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