
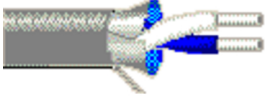


**Product:** [7837A](#) 

T1/DS1 Central Office, 1 Pair 22 AWG, CM



## Product Description

1 Twisted Pair 22 AWG solid tinned copper conductors, Datalene® insulation, shielded with 100% Beldfoil® shield, 24 AWG solid tinned copper drain wire, PVC jacket, CM rated.

## Technical Specifications

### Product Overview

Suitable Applications:	T1, DS1, Data
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### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	Solid	TC - Tinned Copper	0.025 in	1

Total Number of Pairs:	1
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#### Insulation

Material	Material Trade Name	Nominal Diameter
PE - Polyethylene (Foam)	Datalene®	0.072 in

#### Color Chart

Number	Color
1	Blue & White

#### Inner Shield Material

Drainwire Construction n x D
Solid

#### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG	Drainwire Position
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	0.021 in	24	Over shield tape

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.202 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
16.7 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor
14.5 pF/ft

#### Inductance

<b>Nominal Inductance</b>
0.24 $\mu$ H/ft

#### Impedance

<b>Max. Differential Impedance (1MHz)</b>	<b>Nominal Characteristic Impedance</b>
105	100 Ohm

#### High Frequency (Nominal/Typical)

<b>Frequency [MHz]</b>	<b>Nom. Insertion Loss</b>
772 kHz	4.3 dB/100ft

#### Delay

<b>Nominal Delay</b>
1.41 ns/ft

#### Current

<b>Max. Recommended Current [A]</b>
2.8 Amps per Conductor at 25°C

#### Voltage

<b>UL Voltage Rating</b>
300 V RMS

### Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-20°C To +75°C

### Mechanical Characteristics

Bulk Cable Weight:	17 lbs/1000ft
Max. Pull Tension:	17 lbs
Min Bend Radius/Minor Axis:	2 in

### Standards

NEC/(UL) Compliance:	CM
CEC/C(UL) Compliance:	CM

### Applicable Environmental and Other Programs

Environmental Space:	Indoor Rated (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

### Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

### Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N): No

## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
7837A 0601000	Chrome	Reel	1,000 ft	612825190103
7837A 0602000	Chrome	Reel	2,000 ft	612825190110

Footnote: C - CRATE REEL PUT-UP.

## Product Notes

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.

## History

Update and Revision: Revision Number: 0.200 Revision Date: 02-16-2021

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