
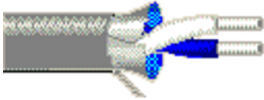


Product: [7837A](#) 

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				

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

Color Chart	
Number	Color
1	Blue & White

Inner Shield	
Drainwire Construction n x D	
Solid	

Outer Shield							
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	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

Nominal Inductance
0.24 µH/ft

Impedance

Max. Differential Impedance (1MHz)	Nominal Characteristic Impedance
105	100 Ohm

High Frequency (Nominal/Typical)

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

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.41 ns/ft	72%

Current

Max. Recommended Current [A]
2.8 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	Yes
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, LS0H, Toxicity Testing

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

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Put-Up 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.
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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.
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History

Update and Revision:	Revision Number: 0.278 Revision Date: 12-15-2021
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