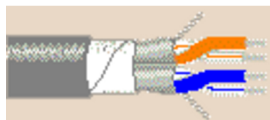


Product: [7838A](#) 



T1/DS1 Central Office, 2 Pair 22 AWG, CM

Product Description

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

Technical Specifications

Product Overview

Suitable Applications:	T1, DS1, Data
------------------------	---------------

Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
22	Solid	TC - Tinned Copper	2

Insulation

Material	Nom. Insulation Diameter	Color Code	Notes
PE - Polyethylene (Foam)	0.072 in (1.8 mm)	Blue & White/Blue, Orange & White/Orange	Solid PE w/ Foam PE skin

Inner Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	.202 x .360 in

Electrical Characteristics

Delay

Nom. Velocity of Prop.
72%

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-20°C To +75°C

Max. Pull Tension:	34 lbs (15 kg)
Bulk Cable Weight:	34 lbs/1000ft (51 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor Rated (Not Riser or Plenum), Indoor, Aerial - Black only, When supported by messenger wire
----------------------------	---

Flammability / Reaction to Fire:	UL1685 UL Loading
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CM
CEC / C(UL) Compliance:	CM.
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

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: 0.364 Revision Date: 09-07-2025
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7838A 0601000	Chrome	Reel	1,000 ft	612825190127	C
7838A 0602000	Chrome	Reel	2,000 ft	612825190134	C
7838A 0605000	Chrome	Reel	5,000 ft	612825190141	C

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

© 2026 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.