


**Product: [8125](#)**
**RS232/422 Low Cap, #24-25pr, FPO, O/A Foil+Braid, PVC Jkt, CMG, 100Ω**
**Product Description**

Computer EIA RS-232/422 Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.

**Technical Specifications**
**Product Overview**

Suitable Applications:	rs-232 extended distance applications; rs-422 applications; computer communications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; panel wiring
------------------------	--

**Construction Details**
**Conductor**

Element	No. of Elements	Size	Stranding	Material
Pair(s)	25	24 AWG	7x32	TC - Tinned Copper

**Insulation**

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene (Foam)	0.013 in (0.33 mm)	0.049 in (1.2 mm)	Western Electric Standard

**Outer Shield**

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Braid	Tinned Copper (TC)	65%	

**Outer Jacket**

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.050 in (1.3 mm)	0.632 in (16.1 mm)

Overall Cable Diameter (Nominal):	0.632 in (16.1 mm)
-----------------------------------	--------------------

**Electrical Characteristics**
**Electricals**

Element	Nom. Conductor DCR	Max. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	24 Ohm/1000ft	7.4 Ohm/1000ft	12.5 pF/ft (41.0 pF/m)	22 pF/ft (72 pF/m)	100 Ohm	78%	1 Amp per Conductor at 25°C
Nom Outer Shield DCR:		2 Ohm/1000ft (6.6 Ohm/km)					

**Voltage**

UL Voltage Rating
300 V (CM), 30 V (UL AWM 2919)

**Mechanical Characteristics**
**Temperature**

UL Temperature	Operating
80°C	-30°C to +80°C

#### Bend Radius

Stationary Min.	Installation Min.
6.3 in (160 mm)	6.3 in (160 mm)

Max. Pull Tension:	355 lbs (161 kg)
Bulk Cable Weight:	175 lbs/1000ft

#### Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Flammability / Reaction to Fire:	UL 1685 FT4 Loading
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 2919
CEC / C(UL) Compliance:	CM
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	88125

#### Product Notes

Notes:	Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.
--------	--

#### History

Update and Revision:	Revision Number: 0.455 Revision Date: 09-07-2025
----------------------	--

#### Part Numbers

##### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
8125 060100	Chrome	Reel	100 ft	612825195153	C
8125 060500	Chrome	Reel	500 ft	612825195177	C
8125 0601000	Chrome	Reel	1,000 ft	612825195160	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 "AS IS" 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.