



**Product:** [8165](#) 

RS232/422 Low Cap, #24-5pr, FPO, Individ.& O/A Foils+Braid, PVC Jkt, CM, 100Ω

## Product Description

Computer EIA RS-232/422, Digital Audio Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, 5 twisted pairs individually Beldfoil® shielded + overall 100% Beldfoil® + tinned copper braid shield (65% coverage), drain wire, PVC jacket.

## Technical Specifications

### Product Overview

Suitable Applications:	RS-232 Extended Distance & RS-422 Applications; Computer Communications; Low Voltage Analog signals (4-20ma, 0-10v, ...); Low Voltage Digital Control (24v, ...); Digital Audio; Panel Wiring
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### Construction Details

#### Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	5	24 AWG	7x32	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	PE - Polyethylene (Foam)	0.019 in (0.48 mm)	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow

#### Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC	each pair, Z-Fold® Foil-in

#### Outer Shield

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

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.048 in (1.2 mm)	0.413 in (10.5 mm)

Overall Cable Diameter (Nominal):	0.413 in (10.5 mm)
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	24 Ohm/1000ft (79 Ohm/km)	12.5 pF/ft (41.0 pF/m)	22 pF/ft (72 pF/m)	100 Ohm	78%	1.6 Amps per Conductor at 25°C

#### Voltage

UL Voltage Rating
300 V (CM), 300 V (UL AWM 2493)

### Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C (UL AWM 2493)	-40°C to +60°C

Bend Radius

Stationary Min.	Installation Min.
4.1 in (100 mm)	4.1 in (100 mm)

Max. Pull Tension:	132 lbs
Bulk Cable Weight:	81 lbs/1000ft (120 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL1685 UL Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	2493
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)

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.
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History

Update and Revision:	Revision Number: 0.333 Revision Date: 12-15-2021
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Variants

Item #	Color	Putup Type	Length	UPC/EAN
8165.0030	Chrome	Reel	30 m	8719605018007
8165 060100	Chrome	Reel	100 ft	612825195665
8165.00152	Chrome	Reel	152 m	8719605017994
8165.00305	Chrome	Reel	305 m	8719605018014
8165 060500	Chrome	Reel	500 ft	612825195689
8165 0601000	Chrome	Reel	1,000 ft	612825195672

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