

Product: <u>8168</u> ☑

RS232/422 Low Cap, #24-8pr, FPO, Indiv.& O/A Foils+Braid, PVC Jkt, CM, 100 Ω

Product Description

Computer EIA RS-232/422, Digital Audio Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, 8 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

Construction Details

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Element	Number of Element	Size	Stranding	Material	
Pair(s)	8	24 AWG	7x32	TC - Tinned Copper	

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene (Foam)	0.019 in (0.48 mm)	0.061 in (1.5 mm)	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown, Black & Orange, Red & White

Inner Shield

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

Outer Shield

Shield Type	Material	Coverage
Таре	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)) 0.479 in (12.2 mm)
Overall Cable Diameter (Nominal):	0.479 in (12.2 mm)

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	12.5 pF/ft (41.0 pF/m)	22 pF/ft (72 pF/m)	100 Ohm	78%	1.1 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	-40°C to +60°C

Bend Radius

Stationary Min.Installation I4.8 in (120 mm)4.8 in (120 mm)	
Max. Pull Tension:	184 lbs (83.5 kg)
Bulk Cable Weight:	108 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 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)
UK Regulation Compliance:	UKCA Mark
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.

History

Update and Revision:	Revision Number: 0.485 Revision Date: 01-20-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
8168 060100	Chrome	Reel	100 ft	612825195740
8168 060500	Chrome	Reel	500 ft	612825195764
8168 0601000	Chrome	Reel	1,000 ft	612825195757

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