



**Product:** <u>8178</u> ☑

RS232/422 Low Cap, #24-18pr, FPO, Indiv.& O/A Foils+Braid, PVC Jkt, CM, 1000

# **Product Description**

Computer EIA RS-232/422, Digital Audio Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, 18 twisted pairs individually Beldfoil® shielded + overall 100% Beldfoil® + tinned copper braid shield (65% coverage), drain wire, PVC jacket.

# **Technical Specifications**

## **Product Overview**

Control (24v,); Digital
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## **Construction Details**

## Conductor

Elei	ment	Number of Element	AWG	Stranding	Material
Pair	(s)	18	24	7x32	TC - Tinned Copper

#### Insulation

Eler	ent Material	Thickness	Color Code
Pair	PE - Polyethylene (Foam)	0.019 in	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown, Black & Orange, Red & White, Red & Green, Red & Blue, Red & Yellow, Red & Brown, Red & Orange, Green & White, Green & Blue, Green & Yellow, Green & Brown, Green & Orange

#### Inner Shield Material

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 Material**

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

#### Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.065 in	0.696 in
Cable Diameter (Nomina	I): 0.6	696 in

# **Electrical Characteristics**

# Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	24 Ohm/1000ft	12.5 pF/ft	22 pF/ft	100 Ohm	78%	1 Amp per Conductor at 25°C
Nom Outer Shield DCR: 2.6 Ohm/1000ft		2.6 Ohm/1000ft				

# Voltage

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

# **Mechanical Characteristics**

#### Temperature

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

#### **Bend Radius**

Stationary Min.	Installation Min.
7 in	7 in

Max. Pull Tension:	372 lbs
Bulk Cable Weight:	214 lbs/1000ft

# **Standards and Compliance**

Environmental Suitability:	Indoor
Flammability / Fire Resistance:	UL1685 UL Loading
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 II), 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.

# History

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Re	Jpdate and Revision:	

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