



**Part Number: 8162**

RS232/422 Low Cap, #24-2pr, 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, twisted pairs individually Beldfoil® shielded + overall 100% Beldfoil® + tinned copper braid shield (65% coverage), drain wire, PVC jacket

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	2

Conductor Count:	4
Conductor Size:	24 AWG

**Insulation**

Material	Material Trade Name	Nominal Wall Thickness
FPE - Foamed Polyethylene	Datalene®	0.019 in

**Color Chart**

Number	Color
1	Black & Red
2	Black & White

**Color Chart 2**

Number
8

**Inner Shield Material**

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil® (Z-Fold®)	100 %	TC - Tinned Copper	24	7x32

**Outer Shield Material**

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester	Beldfoil®	100 %
Braid	2	TC - Tinned Copper		65 %

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.343 in	0.048 in

**Electrical Characteristics**

**Conductor DCR**

Individual Pair Nominal Shield DCR	Nominal Conductor DCR	Nominal Outer Shield DCR
18 Ohm/1000ft	24 Ohm/1000ft	4.3 Ohm/1000ft

**Capacitance**

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
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12.5 pF/ft	22 pF/ft
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#### Inductance

##### Nominal Inductance

0.228 µH/ft

#### Impedance

##### Nominal Characteristic Impedance

100 Ohm

#### Delay

##### Max. Delay Skew    Nominal Velocity of Propagation (VP) [%]

78 ns/100m

78 %

#### Current

##### Max. Recommended Current [A]

1.8 Amps per conductor @ 25°C A

#### Voltage

##### UL Voltage Rating

300 V RMS

### Temperature Range

Operating Temp Range: -40°C To +60°C

### Mechanical Characteristics

Bulk Cable Weight: 53 lbs/1000ft

Max Recommended Pulling Tension: 63 lbs

Min Bend Radius/Minor Axis: 3.5 in

### Standards

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

UL AWM Style: 2493 (300 V 60°C)

CPR Euroclass: Eca

### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/96/EC (BFR): Yes

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: Yes

EU RoHS Compliance Date (yyyy-mm-dd): 2004-01-01

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

### Flammability, LSOH, Toxicity Testing

UL Flammability: UL1581 Vertical Tray

UL voltage rating: 300 V RMS

### Plenum/Non-Plenum

Plenum (Y/N): No

### Part Number

#### Variants

Item #	Color	Footnote
8162.00305	Chrome	
8162 060100	Chrome	
8162 0601000	Chrome	C

Footnote: C - CRATE REEL PUT-UP.

## 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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