



Part Number: 8102

RS232/422 Low Cap, #24-2pr, FPO, O/A Foil+Braid, PVC Jkt, CM,  $100\Omega$ 

# **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**

### **Physical Characteristics (Overall)**

#### Conductor

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	2
Condu	Conductor Count:		4
Condu	Conductor Size:		24 AWG

#### Insulation

Material	Material Trade Name	Nominal Wall Thickness
FPE - Foamed Polyethylene	Datalene®	0.013 in

## Color Chart

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White

### **Outer Shield Material**

Ţ	ype	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Т	ape	1	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	24	7x32 mm
В	Braid	2	TC - Tinned Copper		65 %			

### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.27 in	0.035 in

## **Electrical Characteristics**

### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
24 Ohm/1000ft	4.6 Ohm/1000ft

### Capacitance

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

### Inductance



#### Impedance

Nominal Characteristic Impedance

# 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 Description	UL Voltage Rating	
UL AWM Style 2919	30 V RMS (UL AWM Style 2919)	
CM	300 V RMS (CM)	

# **Temperature Range**

UL Temp Rating:	80°C (UL AWM Style 2919)
Operating Temp Range:	-30°C To +80°C

# **Mechanical Characteristics**

Bulk Cable Weight:	34 lbs/1000ft
Max Recommended Pulling Tension:	27.5 lbs
Min Bend Radius/Minor Axis:	2.75 in

### **Standards**

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
UL AWM Style:	2919 (30 V 80°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, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	30 V RMS (UL AWM Style 2919)

# Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	88102

# **Part Number**

### Variants

Item #	Color	Footnote
8102.001000	Chrome	
8102.0030	Chrome	
8102.00305	Chrome	
8102.01152	Chrome	
8102 060100	Chrome	
8102 0601000	Chrome	С
8102 06010000	Chrome	CY

	8102 0605000   Chrome   C	
	Footnote:	C - CRATE REEL PUT-UP.
Footnote: Y - FINAL PUT-UP LENGTH MAY VAR -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF		Y - FINAL PUT-UP LENGTH MAY VAR -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

### **Product Notes**

8102 060500 | Chrome | C

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