



Part Number: 8106

RS232/422 Low Cap, #24-6pr, FPO, O/A Foil+Braid, PVC Jkt, CM, 100Ω

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	6

Conductor Count: 12

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
3	White/Green & Green/White
4	White/Brown & Brown/White
5	White/Gray & Gray/White
6	Red/Blue & Blue/Red

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.341 in	0.035 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
24 Ohm/1000ft	3.5 Ohm/1000ft

Capacitance

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

Inductance

Nominal Inductance

0.201 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]

Per conductor @ 25°C: 1.5 A

Voltage

UL Description UL Voltage Rating

UL AWM Style 2919 30 V RMS

300 V RMS

Temperature Range

UL Temp Rating: 80°C (UL AWM Style 2919)

Operating Temp Range: -30°C To +80°C

Mechanical Characteristics

Bulk Cable Weight: 54 lbs/1000ft

Max Recommended Pulling Tension: 71.5 lbs

Min Bend Radius/Minor Axis: 3.5 in

Standards

NEC Articles: 800

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 2003/11/EC (BFR): Yes

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

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

EU Directive 2015/863/EU: 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

Suitability

Suitability - Indoor: Yes

Flammability, LSOH, Toxicity Testing

UL Flammability: UL1685 UL Loading

ISO/IEC Flammability: IEC 60332-1-2

UL voltage rating: 30 V RMS

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 88106

Part Number

Variants

Item #	Color	UPC	Length	Footnote
8106.0030	Chrome		30 m	
8106.00305	Chrome		305 m	
8106.01152	Chrome		152 m	
8106 060100	Chrome	612825194927	100 ft	
8106 0601000	Chrome	612825194934	1,000 ft	C
8106 060500	Chrome	612825194941	500 ft	C
8106 0605000	Chrome	612825194958	5,000 ft	

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.

History

Update and Revision: Revision Number: 0.246 Revision Date: 08-22-2019

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