



Product: [9791](#)

RS232/423 Low Cap, #28-6c, FPO, O/A Foil+Braid, PVC Jkt, CL2

Product Description

Computer EIA RS-232/423 Cable, 28 AWG stranded (7x36) tinned copper conductors, Datalene® insulation, overall Beldfoil® (100% Coverage) + tinned copper braid shield (65% Coverage), 28 AWG stranded tinned copper drain wire, PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	rs-232 extended distance applications; rs-423 applications; computer communications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; panel wiring
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
28	7x36	TC - Tinned Copper	6

Conductor Count: 6

Insulation

Material	Material Trade Name	Nominal Wall Thickness
PE - Polyethylene (Foam)	Datalene®	0.015 in

Color Chart

Number	Color
1	Black
2	White
3	Red
4	Green
5	Brown
6	Blue

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Alum / Poly	Beldfoil®	100%	TC - Tinned Copper	28	7x36
Braid	2	Tinned Copper (TC)		65%			

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.225 in	0.035 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
65 Ohm/1000ft	4.7 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
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12 pF/ft

22 pF/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]
0.9 Amps per Conductor at 25°C

Voltage

UL Description	UL Voltage Rating
UL AWM Style 2919	30 V RMS (UL AWM Style 2919)
CL2	150 V RMS (CL2)

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	26 lbs/1000ft
Min Bend Radius/Minor Axis:	2.25 in

Standards

NEC Articles:	Article 725
NEC/(UL) Compliance:	CL2
UL AWM Style Compliance:	2919 (30 V 80°C)

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/66/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):	2005-10-13
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1581 Vertical Tray
UL voltage rating:	30 V RMS (UL AWM Style 2919)

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number**Variants**

Item #	Color	Putup Type	Length	UPC
9791 060500	Chrome	Reel	500 ft	612825258674
9791 0601000	Chrome	Reel	1,000 ft	612825258667

Footnote: C - CRATE REEL PUT-UP.

Product Notes

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

Update and Revision:

Revision Number: 0.312 Revision Date: 06-24-2020

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