



**Product:** [8133](#)

RS232/485 Low Cap, #28-3pr, FPO, O/A Foil+Braid, PVC Jkt, CL2, 120Ω

## Product Description

Computer EIA RS-232/485 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-485 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 Pairs
28	7x36	TC - Tinned Copper	3

Conductor Count: 6

#### Insulation

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

#### Color Chart

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

#### 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	TC - Tinned Copper		65 %			

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.265 in	0.035 in

### Electrical Characteristics

#### Conductor DCR

Max. Conductor DCR	Nominal Conductor DCR	Nominal Outer Shield DCR
7.7 Ohm/1000ft	65 Ohm/1000ft	5.2 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
11 pF/ft	20 pF/ft

#### Impedance

**Nominal Characteristic Impedance**

120 Ohm

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

78 ns/100m

78 %

**Current****Max. Recommended Current [A]**

0.9 Amps per conductor @ 25°C A

**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: 31 lbs/1000ft

Min Bend Radius During Installation: 7.6 in

Min Bend Radius/Minor Axis: 2.75 in

**Dimensions (WxHxD)****Width**

7.639

**Standards**

NEC/(UL) Specification: CL2

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

MII Order #39 (China RoHS): Yes

**Flammability, LSOH, Toxicity Testing**

UL Flammability: UL1685 UL Loading

ISO/IEC Flammability: IEC 60332-1-2

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

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Part Number****Variants**

Item #	Color	Putup Type	Length	UPC
8133 060100	Chrome	Reel	100 ft	612825195283
8133 060500	Chrome	Reel	500 ft	612825195306
8133 0601000	Chrome	Reel	1,000 ft	612825195290

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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## History

Update and Revision:	Revision Number: 0.270 Revision Date: 04-28-2020
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