



Product: [8138](#)

RS232/485 Low Cap, #28-8pr, FPE, O/A Foil+Braid, PVC Jkt, CL2, 120Ω

Product Description

Computer EIA RS-232/485 Cable, 8-Pair, 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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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	8	28 AWG	7x36	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	PE - Polyethylene (Foam)	0.0145 in (0.368 mm)	White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe, White/Green Stripe & Green/White Stripe, White/Brown Stripe & Brown/White Stripe, White/Gray Stripe & Gray/White Stripe, Red/Blue Stripe & Blue/Red Stripe, Red/Orange Stripe & Orange/Red Stripe, Red/Green Stripe & Green/Red Stripe

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	28 AWG (7x36) TC
Braid	Tinned Copper (TC)	65%	

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.039 in (0.99 mm)	0.330 in (8.38 mm)

Overall Cable Diameter (Nominal): 0.330 in (8.38 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	65 Ohm/1000ft (210 Ohm/km)	11 pF/ft (36 pF/m)	20 pF/ft (66 pF/m)	120 Ohm	78%	0.7 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
30 V (UL AWM 2919)

Mechanical Characteristics

Temperature

UL Temperature	Operating

80°C (UL AWM 2919) -30°C to +80°C

Bulk Cable Weight: 47 lbs/1000ft (70 kg/km)

Standards and Compliance

Flammability / Reaction to Fire: UL 1685 UL Loading, IEC 60332-1-2

CPR Compliance: CPR Euroclass: Eca

NEC / UL Compliance: CL2

AWM Compliance: 2919

European Directive Compliance: EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)

APAC Compliance: China RoHS II (GB/T 26572-2011)

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: 0.317 Revision Date: 12-15-2021

Variants

Item #	Color	Putup Type	Length	UPC
8138 060100	Chrome	Reel	100 ft	612825195405
8138 060500	Chrome	Reel	500 ft	612825195429
8138 0601000	Chrome	Reel	1,000 ft	612825195412

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