



**Product:** [9813](#)

RS232/422 Low Cap, #28-13pr, PP, O/A Foil+Braid, PVC Jkt, CL2, 100Ω

## Product Description

Computer EIA RS-232/422 Cable, 13-Pair, 28 AWG stranded (7x36) tinned copper conductors, polypropylene insulation, overall Beldfoil® (100% coverage) + tinned copper braid shield (90% coverage), 28 AWG stranded tinned copper drain wire, PVC jacket.

## Technical Specifications

### Product Overview

Suitable Applications:	RS-232 extended distance applications; RS-422 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	AWG	Stranding	Material
Pair(s)	13	28	7x36	TC - Tinned Copper

#### Insulation

Element	Material	Thickness	Color Code
Pair(s)	PP - Polypropylene	0.009 in	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown, Black & Orange, Red & White, Red & Green, Red & Blue, Red & Yellow, Red & Brown, Red & Orange
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#### Outer Shield Material

Shield Type	Material	Coverage	Drainwire Type
Tape + Braid	Bi-Laminate (Alum+Poly) + Tinned Copper (TC)	100% + 90%	28 AWG (7x36) TC

#### Outer Jacket Material

Material	Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.035 in	0.336 in

Cable Diameter (Nominal): 0.336 in

### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	64.9 Ohm/1000ft	15.5 pF/ft	27.5 pF/ft	100 Ohm	66%	0.65 Amps per Conductor at 25°C

Nom Outer Shield DCR: 2.2 Ohm/1000ft

#### Voltage

UL Voltage Rating
30 V (UL AWM 2960)

### Mechanical Characteristics

#### Temperature

UL Rating	Operating	Storage

60°C (UL AWM 2960) -30°C to +60°C -35°C to +60 °C

#### Bend Radius

##### Stationary Min.

3.5 in

Max. Pull Tension: 116 lbs

Bulk Cable Weight: 62 lbs/1000ft

#### Standards and Compliance

Environmental Suitability: Indoor

Flammability / Fire Resistance: UL1685 UL Loading, IEC 60332-1-2

NEC / UL Compliance: CL2

AWM Compliance: 2960

CPR Euroclass: Eca

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

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

#### History

Update and Revision: Revision Number: 0.313 Revision Date: 02-16-2021

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