



Product: [9814](#)

RS232/422 Low Cap, #28-31pr, PP, O/A Foil+Braid, PVC Jkt, CL2, 100Ω

Product Description

Computer EIA RS-232/422 Cable, 31-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)	31	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, Green & White, Green & Blue, Green & Yellow, Green & Brown, Green & Orange, White & Blue, White & Yellow, White & Brown, White & Orange, Blue & Yellow, Blue & Brown, Blue & Orange, Brown & Yellow, Brown & Orange, Orange & Yellow, Purple & Orange, Purple & Red, Purple & White

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	0.040 in	0.462 in

Cable Diameter (Nominal): 0.462 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%	0.5 Amps per Conductor at 25°C

Nom Outer Shield DCR: 2.1 Ohm/1000ft

Voltage

UL Voltage Rating
30 V (UL AWM 2960)

Mechanical Characteristics

Temperature

UL Rating	Operating
60°C (UL AWM 2960)	-20°C to +60°C

Bend Radius

Stationary Min.

4.75 in

Max. Pull Tension: 207 lbs

Bulk Cable Weight: 118 lbs/1000ft

Standards and Compliance

Environmental Suitability: Indoor

Flammability / Fire Resistance: UL1685 UL Loading

NEC / UL Compliance: CL2

AWM Compliance: 2960

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: 0.316 Revision Date: 09-30-2020

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