



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	No. of Elements	Size	Stranding	Material
Pair(s)	31	28 AWG	7x36	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	PP - Polypropylene	0.009 in (0.23 mm)	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

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.040 in (1.0 mm)	0.462 in (11.7 mm)

Overall Cable Diameter (Nominal):	0.462 in (11.7 mm)
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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)	64.9 Ohm/1000ft (213 Ohm/km)	15.5 pF/ft (50.9 pF/m)	27.5 pF/ft (90.2 pF/m)	100 Ohm	66%	0.5 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
30 V (UL AWM 2960)

Mechanical Characteristics

Temperature

UL Temperature	Operating
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60°C (UL AWM 2960)	-20°C to +60°C
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Max. Pull Tension:	207 lbs (93.9 kg)
Bulk Cable Weight:	118 lbs/1000ft (176 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL1685 UL Loading
NEC / UL Compliance:	CL2
AWM Compliance:	AWM 2960
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)

History

Update and Revision:	Revision Number: 0.330 Revision Date: 05-05-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
9814 0601000	Chrome	Reel	1,000 ft	612825259022	C

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