

Product: 9812

RS232/422 Low Cap, #28-12pr, PP, O/A Foil+Braid, PVC Jkt, CL2, 100Ω

Product Description

Computer EIA RS-232/422 Cable, 12-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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	12	28 AWG	7x36	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PP - Polypropylene	0.009 in (0.23 mm)	0.033 in (0.84 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

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	0.035 in (0.89 mm)	0.319 in (8.10 mm)

Overall Cable Diameter (Nominal):	0.319 in (8.10 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	73.5 Ohm/1000ft	16.5 pF/ft (54.1 pF/m)	27.5 pF/ft (90.2 pF/m)	100 Ohm	66%	0.65 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
30 V

Mechanical Characteristics

Temperature

UL Temperature	Operating

60°C	-30°C to +60°C

Bend Radius

Stationary Min.	Installation Min.
3.2 in (81 mm)	3.2 in (81 mm)

Max. Pull Tension:	105 lbs (47.6 kg)
Bulk Cable Weight:	58 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 725, CL2
AWM Compliance:	AWM 2960
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.495 Revision Date: 12-22-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
9812 060100	Chrome	Reel	100 ft	612825258957	
9812 060500	Chrome	Reel	500 ft	612825258971	C
9812 0601000	Chrome	Reel	1,000 ft	612825258964	C

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