



Product: <u>9684</u> ☑

RS232/422 Low Cap, #24-12.5pr, PO, O/A Foil, PVC Jkt, CM, 100Ω

Product Description

Computer EIA RS-232/422 Cable, 24 AWG stranded (7x32) tinned copper conductors, polyethylene insulation, twisted pairs, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	rs-232 extended distance applications; rs-423 applications; computer communications; low voltage analog signals (4-20ma, 0-10v,); low voltage digital control (24v,
Guitable / tppiloations.); line level audio; panel wiring

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	12	24 AWG	7x32	TC - Tinned Copper
Conductor(s)	1	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene	0.016 in (0.41 mm)	0.054 in (1.4 mm)	White/Blue & Blue/White, White/Orange & Orange/White, White/Green & Green/White, White/Brown & Brown/White, White/Gray & Gray/White, Red/Blue & Blue/Red, Red/Crange & Orange/Red, Red/Green & Green/Red, Red/Brown & Brown/Red, Red/Gray & Gray/Red, Black/Blue & Blue/Black, Black/Orange & Orange/Black
Conductor(s)	PE - Polyethylene	0.016 in (0.41 mm)	0.054 in (1.4 mm)	Grey

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

Outer Jacket

	Material	Nom. Thickness	Nom. Diameter	Ripcord
	PVC - Polyvinyl Chloride	0.035 in (0.89 mm	0.445 in	Yes
ĺ	Overall Cable Diameter (N	Nominal): 0.	.445 in	

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)	28.8 Ohm/1000ft	15.5 pF/ft (50.9 pF/m)	27.5 pF/ft (90.2 pF/m)	100 Ohm	66%	1.05 Amps per Conductor at 30°C
Conductor(s)	28.3 Ohm/1000ft (92.8 Ohm/km)					3.36 Amps per Conductor at 30°C
Nom Outer SI DCR1-cnv:	hield DCR@Cond	12 Ohm/1000ft (39 Ohm/km)				

Voltage

UL Voltage Rating
30 V (AWM 2919), 300 V (CM)

Mechanical Characteristics

Temperature

UL Temperature	Operating
80°C	-20°C to +80°C

Bend Radius

Stationary Min.	Installation Min.
4.45 in (113 mm)	4.45 in

Max. Pull Tension:	143 lbs (64.9 kg)
Bulk Cable Weight:	89 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL1685 UL Loading
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 2919
CEC / C(UL) Compliance:	CM
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: 0.363 Revision Date: 09-07-2025	

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
9684 060500	Chrome	Reel	500 ft	612825257035	С
9684 0601000	Chrome	Reel	1,000 ft	612825257028	С
Footnote:			C - CI	RATE REEL PUT	-UP.

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