



**Product:** [9684](#)

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

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Conductors	No. of Pairs
24	7x32	TC - Tinned Copper	1	12

Conductor Count:	25
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#### Insulation

Element	Material	Nominal Wall Thickness
	PE - Polyethylene	0.016 in
16		

#### Color Chart

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White
3	White/Green & Green/White
4	White/Brown & Brown/White
5	White/Gray & Gray/White
6	Red/Blue & Blue/Red
7	Red/Orange & Orange/Red
8	Red/Green & Green/Red
9	Red/Brown & Brown/Red
10	Red/Gray & Gray/Red
11	Black/Blue & Blue/Black
12	Black/Orange & Orange/Black
Single	Gray

#### Color Chart 2

Number
16

#### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	24	7x32 mm

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.445 in	0.035 in

## Electrical Characteristics

### Conductor DCR

Max. Conductor DCR	Nominal Conductor DCR	Nominal Outer Shield DCR
16 Ohm/1000ft	24 Ohm/1000ft	12 Ohm/1000ft

### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
15.5 pF/ft	27.5 pF/ft

### Impedance

Nominal Characteristic Impedance
100 Ohm

### Delay

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	66 %

### Current

Max. Recommended Current [A]
2.1 Amps per conductor @ 25°C A

### Voltage

UL Description	UL Voltage Rating
UL AWM Style 2919	30 V RMS (UL AWM Style 2919)
CM	300 V RMS (CM)

## Temperature Range

Operating Temp Range:	-20°C To +80°C
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## Mechanical Characteristics

Bulk Cable Weight:	85 lbs/1000ft
Max Recommended Pulling Tension:	133 lbs
Min Bend Radius/Minor Axis:	4.5 in

## Standards

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
UL AWM Style:	2919 (30 V 80°C)

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	30 V RMS (UL AWM Style 2919)

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	UPC	Length	Footnote
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9684 0601000	Chrome	612825257028	1,000 ft	C
9684 060500	Chrome	612825257035	500 ft	C

Footnote: C - CRATE REEL PUT-UP.

### History

Update and Revision: Revision Number: 0.250 Revision Date: 02-01-2020

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