



**Product:** [9509](#)

RS-232, #24-9pr, SR-PVC, O/A Foil, PVC Jkt, CMG, 75Ω

### Product Description

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

### Technical Specifications

#### Product Overview

Suitable Applications:	rs-232 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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#### Physical Characteristics (Overall)

##### Conductor

Element	AWG	Stranding	Material	No. of Pairs
Pair(s)	24	7x32	TC - Tinned Copper	9

Conductor Count:

18

##### Insulation

Element	Material	Nominal Wall Thickness
Pair(s)	S-R PVC - Semi-Rigid Polyvinyl Chloride	0.011 in

##### Color Chart

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown
7	Black & Orange
8	Red & White
9	Red & Green

##### Outer Shield Material

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

##### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.334 in	0.032 in

#### Construction and Dimensions

##### Stranding

Twists
12 twist/ft

## Electrical Characteristics

### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
24 Ohm/1000ft	16.5 Ohm/1000ft

### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
30 pF/ft	50 pF/ft

### Delay

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
60 ns/100m	60 %

### Current

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

### Voltage

UL Voltage Rating
300 V RMS

## Temperature Range

Operating Temp Range:	-30°C To +80°C
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## Mechanical Characteristics

Bulk Cable Weight:	62 lbs/1000ft
Max Recommended Pulling Tension:	99 lbs
Min Bend Radius/Minor Axis:	3.5 in

## Standards

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
UL AWM Style:	2464 (300 V 80°C)
CSA AWM Specification:	AWM I A
CPR Euroclass:	Eca

## 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):	2005-04-01
MII Order #39 (China RoHS):	Yes

## Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1685 FT4 Loading
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	82509

## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC/EAN
9509.0030	Chrome	Reel	30 m	8719605021595
9509 060100	Chrome	Reel	100 ft	612825254515
9509.01152	Chrome	Reel	152 m	8719605021618
9509.00305	Chrome	Reel	305 m	8719605021601
9509 060500	Chrome	Reel	500 ft	612825254539
9509 0601000	Chrome	Reel	1,000 ft	612825254522
9509 0605000	Chrome	Reel	5,000 ft	612825254546

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.302 Revision Date: 05-11-2020
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