

**Part Number: 8107**



RS-232/422 Low Cap, #24-7pr, FPO, O/A Foil+Braid, PVC Jkt, CM, 100Ω

### Product Description

Computer EIA RS-232/422 Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% 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	14	7

Conductor Count:	14
Conductor Size:	24 AWG

##### Insulation

Material	Material Trade Name	Nominal Wall Thickness
FPE - Foamed Polyethylene	Datalene®	0.013 in

##### 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

##### Color Chart 2

Number
7

##### Inner Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.341 in

##### Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	24	7x32 mm
Braid	2	TC - Tinned Copper		65 %			

##### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.621 in	0.035 in

#### Construction and Dimensions

##### Armor

Type of Armor	Material	Diameter over Armoring
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Interlocked Armor	Aluminum	0.544 in
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## Electrical Characteristics

### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
24 Ohm/1000ft	3.5 Ohm/1000ft

### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
12.5 pF/ft	22 pF/ft

Shielding:	Foil + Braid(s)
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### Impedance

Nominal Characteristic Impedance
100 Ohm

### High Frequency (Nominal/Typical)

Nom. Insertion Loss
7 dB/100m

### Delay

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
78 ns/100m	78 %

### Current

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

### Voltage

UL Description	UL Voltage Rating
UL AWM Style 2919	300 V RMS
CM	300 V RMS

## Temperature Range

UL Temp Rating:	80°C
Operating Temp Range:	-30°C To +80°C

## Mechanical Characteristics

Bulk Cable Weight:	172 lbs/1000ft
Max Recommended Pulling Tension:	200 lbs
Min Bend Radius/Minor Axis:	6.2 in

## Standards

NEC Articles:	800
NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
UL AWM Style:	2919 (30 V 80°C)
CPR Euroclass:	Eca

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	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
CA Prop 65 (CJ for Wire & Cable):	Yes
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
Plenum Number:	88107

## Part Number

### Variants

Item #	Color	Footnote
8107 060100	Chrome	
8107 0601000	Chrome	C
8107 060500	Chrome	C

Footnote:	C - CRATE REEL PUT-UP.
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