



**Product:** [88102](#)

RS-232/422 Low Cap, #24-2pr, FFEP, O/A Foil, PVDF Jkt, CMP, 100Ω

## Product Description

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

## Technical Specifications

### Product Overview

Suitable Applications:	extreme high temperature environments; rs-232 extended distance applications; rs-422 applications; computer communication; 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

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	2

Conductor Count: 4

#### Insulation

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene (Foam)	0.015 in

#### Color Chart

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White

#### 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
PVDF - Polyvinylidene Fluoride	0.203 in	0.014 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
24 Ohm/1000ft	15.5 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
13 pF/ft	23.3 pF/ft

#### Inductance

Nominal Inductance
0.21 μH/ft

## Impedance

### Nominal Characteristic Impedance

100 Ohm

## High Frequency (Nominal/Typical)

### Nom. Insertion Loss

22.5 dB/100m

## Delay

### Max. Delay Skew Nominal Delay Nominal Velocity of Propagation (VP) [%]

78 ns/100m 1.3 ns/ft 78 %

## Current

### Max. Recommended Current [A]

1.76 Amps per conductor @ 25°C A

## Voltage

### UL Voltage Rating

300 V RMS

## Temperature Range

Operating Temp Range: -20°C To +150°C

## Mechanical Characteristics

Bulk Cable Weight: 20 lbs/1000ft

Max Recommended Pulling Tension: 28 lbs

Min Bend Radius/Minor Axis: 2.25 in

## Standards

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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, LS0H, Toxicity Testing

UL Flammability: NFPA 262 Plenum Flame Test (UL910)

CSA Flammability: FT6

ISO/IEC Flammability: IEC 60332-1-2

UL voltage rating: 300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N): Yes

## Part Number

### Variants

Item #	Color	UPC
88102 0081000	Gray	612825216643
88102 008500	Gray	612825216650

Footnote: C - CRATE REEL PUT-UP.

## History

Update and Revision:	Revision Number: 0.299 Revision Date: 04-28-2020
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