



**Product:** [89731](#)

RS232/422 Low Cap, #24-6pr, FFEP, Individ. Foil, PVDF Jkt, CMP, 100Ω

## Product Description

Computer EIA RS-232/422, Digital Audio Cable, 6-Pair, 24 AWG stranded (7x32) tinned copper conductor, foam FEP insulation, individually shielded pairs with Beldfoil® (100% coverage), 24 AWG stranded tinned copper drain wire, overall 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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### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	6	24 AWG	7x32	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	0.019 in (0.48 mm)	0.062 in (1.6 mm)	Western Electric Standard
				Red, Green, Blue

#### Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC	each pair

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.014 in (0.36 mm)	0.361 in (9.17 mm)

Overall Cable Diameter (Nominal): 0.361 in (9.17 mm)

### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	28.8 Ohm/1000ft	16.19 Ohm/1000ft (53.12 Ohm/km)	13.5 pF/ft (44.3 pF/m)	22.5 pF/ft (73.8 pF/m)	100 Ohm	76%	1.96 Amps per Conductor at 25°C

#### Voltage

UL Voltage Rating
300 V (CMP)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
150°C	-20°C to +150°C

## Bend Radius

Stationary Min.	Installation Min.
3.6 in (91 mm)	3.6 in (91 mm)

Max. Pull Tension:	72 lbs (33 kg)
Bulk Cable Weight:	62 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	NFPA 262 (UL910)
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	9731

## History

Update and Revision:	Revision Number: 0.455 Revision Date: 02-03-2025
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## Part Numbers

### Variants

Item #	Color	UPC	Footnote
89731 0081000	Gray	612825221180	C

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