



**Product:** [89705](#)

RS232/422 Low Cap, #24-5pr, FFEP, Individ. Foil, PVDF Jkt, CMP, 100Ω

### Product Description

Computer EIA RS-232/422, Digital Audio Cable, 5-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, ...); digital audio; panel wiring
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#### Construction Details

##### Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	5	24 AWG	7x32	TC - Tinned Copper

##### Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	0.019 in (0.48 mm)	White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe, White/Green Stripe & Green/White Stripe, White/Brown Stripe & Brown/White Stripe, White/Gray Stripe & Gray/White Stripe
			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)	0.327 in (8.31 mm)

Overall Cable Diameter (Nominal):	0.327 in (8.31 mm)
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#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	24 Ohm/1000ft (79 Ohm/km)	13.5 pF/ft (44.3 pF/m)	22.5 pF/ft (73.8 pF/m)	100 Ohm	76%	2 Amps per Conductor at 25°C

##### Voltage

<b>UL Voltage Rating</b>
300 V (CMP)

#### Mechanical Characteristics

##### Temperature

<b>UL Temperature</b>	Operating
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150°C	-40°C to +150°C
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Max. Pull Tension:	165 lbs (74.8 kg)
Bulk Cable Weight:	53 lbs/1000ft (79 kg/km)

## Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	NFPA 262 Plenum Flame Test (UL910)
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.326 Revision Date: 05-05-2023
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## Part Numbers

### Variants

Item #	Color	UPC
89705 0081000	Gray	612825221098
89705 008500	Gray	612825221104

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