



**Product:** [88107](#)

RS232/422 Low Cap, #24-7.5pr, FFEP, O/A Foil, PVDF Jkt, CMP, 100Ω

## Product Description

Computer EIA RS-232/422 Cable, 7.5-Pair, 24 AWG stranded (7x32) tinned copper conductors, foam FEP insulation, 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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### Construction Details

#### Conductor

Element	Number of Element	AWG	Stranding	Material
Pair(s)	7	24	7x32	TC - Tinned Copper
Conductor(s)	1	24	7x32	TC - Tinned Copper

#### Insulation

Element	Material	Thickness [in.]	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	0.015	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/Blue Stripe & Blue/Red Stripe, Red/Orange Stripe & Orange/Red Stripe, White
Conductor(s)	FEP - Fluorinated Ethylene Propylene (Foam)	0.015	White

#### Outer Shield Material

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

#### Outer Jacket Material

Material	Thickness	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.014 in	0.305 in

Cable Diameter (Nominal): 0.305 in

### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	24 Ohm/1000ft	12.95 pF/ft	23.3 pF/ft	100 Ohm	78%	1.54 Amps per Conductor at 25°C

Nom Outer Shield DCR: 14 Ohm/1000ft

#### Voltage

**UL Voltage Rating**

300 V (CMP)

### Mechanical Characteristics

## Temperature

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

## Bend Radius

Stationary Min.
3.25 in

Max. Pull Tension:	82 lbs
Bulk Cable Weight:	55 lbs/1000ft

## Standards and Compliance

Flammability / Fire Resistance:	NFPA 262 Plenum Flame Test (UL910), FT6
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.302 Revision Date: 09-30-2020
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