



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 |
|------------------------|--|

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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Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru