



REPRESENTATIVE IMAGE

Product: [8102](#)

RS232/422 Low Cap, #24-2pr, FPO, O/A Foil+Braid, PVC Jkt, CM, 100Ω

Product Description

Computer EIA RS-232/422 Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | rs-232 extended distance applications; rs-422 applications; computer communications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; panel wiring |
|------------------------|--|

Construction Details

Conductor

| Element | Number of Element | AWG | Stranding | Material |
|---------|-------------------|-----|-----------|--------------------|
| Pair(s) | 2 | 24 | 7x32 | TC - Tinned Copper |

Insulation

| Element | Material | Thickness | Color Code |
|---------|--------------------------|-----------|--|
| Pair(s) | PE - Polyethylene (Foam) | 0.013 in | White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe |

Outer Shield Material

| Shield Type | Material | Coverage | Drainwire Type |
|--------------|--|------------|------------------|
| Tape + Braid | Bi-Laminate (Alum+Poly) + Tinned Copper (TC) | 100% + 65% | 24 AWG (7x32) TC |

Outer Jacket Material

| Material | Thickness | Nom. Diameter |
|--------------------------|-----------|---------------|
| PVC - Polyvinyl Chloride | 0.035 in | 0.270 in |

Cable Diameter (Nominal): 0.270 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 | 12.5 pF/ft | 22 pF/ft | 100 Ohm | 78% | 1.8 Amps per Conductor at 25°C |

Nom Outer Shield DCR: 4.6 Ohm/1000ft

Voltage

| UL Voltage Rating |
|--------------------------------|
| 300 V (CM), 30 V (UL AWM 2919) |

Mechanical Characteristics

Temperature

| UL Rating | Operating |
|--------------------|----------------|
| 80°C (UL AWM 2919) | -30°C to +80°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.75 in | 2.7 in |

| | |
|--------------------|---------------|
| Max. Pull Tension: | 36 lbs |
| Bulk Cable Weight: | 34 lbs/1000ft |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor |
| Flammability / Fire Resistance: | UL1685 UL Loading, IEC 60332-1-2 |
| NEC / UL Compliance: | Article 800, CM |
| AWM Compliance: | 2919 |
| CEC / C(UL) Compliance: | CM |
| CPR Euroclass: | Eca |
| 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) |
| Plenum Number: | 88102 |

Product Notes

| | |
|--------|--|
| Notes: | Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight. |
|--------|--|

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.328 Revision Date: 09-30-2020 |
|----------------------|--|

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.