



REPRESENTATIVE IMAGE

**Product:** [8102](#)

RS232/422 Low Cap, #24-2pr, FPE, 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 [in.] | Color Code                                                                       |
|---------|--------------------------|-----------------|----------------------------------------------------------------------------------|
| Pair(s) | PE - Polyethylene (Foam) | 0.0125          | White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe |

#### Outer Shield Material

| Shield Type  | Material                         | Coverage   | Drainwire Type   |
|--------------|----------------------------------|------------|------------------|
| Tape + Braid | 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 Impedence | 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: 0.308 Revision Date: 07-28-2020 |
|----------------------|--------------------------------------------------|

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