



**Product:** [8162](#) 

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

## Product Description

Computer EIA RS-232/422, Digital Audio Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, 2 twisted pairs individually Beldfoil® shielded + overall 100% Beldfoil® + tinned copper braid shield (65% coverage), drain wire, PVC jacket

## Technical Specifications

### Product Overview

|                        |                                                                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | RS-232 Extended Distance & RS-422 Applications; Computer Communications; Low Voltage Analog signals (4-20ma, 0-10v, ...); Low Voltage Digital Control (24v, ...); Digital Audio; Panel Wiring |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Construction Details

#### Conductor

| Element | No. of Elements | Size   | Stranding | Material           |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 2               | 24 AWG | 7x32      | TC - Tinned Copper |

#### Insulation

| Element | Material                 | Nom. Thickness     | Nom. Insulation Diameter | Color Code                 |
|---------|--------------------------|--------------------|--------------------------|----------------------------|
| Pair(s) | PE - Polyethylene (Foam) | 0.019 in (0.48 mm) | 0.061 in (1.5 mm)        | Black & Red, Black & White |

#### Inner Shield

| Element | Shield Type | Material                | Coverage | Drainwire Type   | Notes                      |
|---------|-------------|-------------------------|----------|------------------|----------------------------|
| Pair(s) | Tape        | Bi-Laminate (Alum+Poly) | 100%     | 24 AWG (7x32) TC | each pair, Z-Fold® Foil-in |

#### Outer Shield

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

#### Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter      |
|--------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.048 in (1.2 mm) | 0.343 in (8.71 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.343 in (8.71 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Nom. Inductance          | Nom. Velocity of Prop. | Max. Current                   |
|---------|--------------------|-------------------------------|-------------------------------------------------|-------------------------------|--------------------------|------------------------|--------------------------------|
| Pair(s) | 24 Ohm/1000ft      | 12.5 pF/ft (41.0 pF/m)        | 22 pF/ft (72 pF/m)                              | 100 Ohm                       | 0.228 µH/ft (0.748 µH/m) | 78%                    | 1.8 Amps per Conductor at 25°C |

|                                      |                            |
|--------------------------------------|----------------------------|
| Nom Outer Shield DCR@Cond DCR1-cnrv: | 4.3 Ohm/1000ft (14 Ohm/km) |
|--------------------------------------|----------------------------|

#### Voltage

| UL Voltage Rating               |
|---------------------------------|
| 300 V (CM), 300 V (UL AWM 2493) |

### Mechanical Characteristics

Temperature

| UL Temperature | Operating      |
|----------------|----------------|
| 60°C           | -40°C to +60°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 3.4 in (86 mm)  | 3.4 in (86 mm)    |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 68 lbs (31 kg) |
| Bulk Cable Weight: | 53 lbs/1000ft  |

Standards and Compliance

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor (Not Riser or Plenum), Indoor                                         |
| Flammability / Reaction to Fire: | UL 1685 FT4 Loading, IEC 60332-1-2                                           |
| CPR Compliance:                  | CPR Euroclass: Eca; CPR UKCA Class: Eca                                      |
| NEC / UL Compliance:             | Article 800, CM                                                              |
| AWM Compliance:                  | AWM 2493                                                                     |
| CEC / C(UL) Compliance:          | CM                                                                           |
| 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)                                              |

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: 0.499 Revision Date: 09-07-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #       | Color  | Putup Type | Length   | UPC/EAN       | Footnote |
|--------------|--------|------------|----------|---------------|----------|
| 8162 060100  | Chrome | Reel       | 100 ft   | 612825195566  |          |
| 8162.00305   | Chrome | Reel       | 305 m    | 8719605017925 |          |
| 8162 060500  | Chrome | Reel       | 500 ft   | 612825195580  | C        |
| 8162 0601000 | Chrome | Reel       | 1,000 ft | 612825195573  | C        |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

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