



Product: 8175 ☑

RS232/422 Low Cap, #24-15pr, FPO, Indiv.& O/A Foils+Braid, PVC Jkt, CM,

Product Description

Computer EIA RS-232/422, Digital Audio Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, 15 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) | 15 | 24 AWG | 7x32 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Color Code |
|---------|-----------------------------|-----------------------|--|
| Pair(s) | PE - Polyethylene (Foam) | 0.019 in (0.48 mm) | Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown, Black & Orange, Red & White, Red & Green, Red & Blue, Red & Yellow, Red & Brown, Red & Orange, Green & White, Green & Blue |

Inner Shield

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

Outer Shield

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

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|-----------------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.065 in (1.7 mm) | 0.665 in (16.9 mm) |
| Overall Cable Diameter (Nominal): | 0.665 in | (16.9 mm) |

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Nom. Velocity of Prop. | Max. Current |
|---------|------------------------------|----------------------------------|---|----------------------------------|---------------------------|--------------------------------|
| Pair(s) | 24 Ohm/1000ft (79 Ohm/km) | 12.5 pF/ft (41.0 pF/m) | 22 pF/ft (72 pF/m) | 100 Ohm | 78% | 1.1 Amps per Conductor at 25°C |

Voltage

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

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|--------------------|----------------|
| 60°C (UL AWM 2493) | -40°C to +60°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 6.7 in (170 mm) | 6.7 in (170 mm) |

| Max. Pull Tension: | 322 lbs (146 kg) |
|--------------------|----------------------------|
| Bulk Cable Weight: | 194 lbs/1000ft (289 kg/km) |

Standards and Compliance

| Environmental Suitability: | Indoor |
|----------------------------------|--|
| Flammability / Reaction to Fire: | UL1685 UL Loading |
| CPR Compliance: | CPR Euroclass: 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. | |
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History

| Jpdate and Revision: | Revision Number: 0.338 Revision Date: 12-22-2023 |
|----------------------|--|

Part Numbers

Variants

| | Item # | Color | Putup Type | Length | UPC | Footnote |
|--|--------------|--------|------------|----------|--------------|----------|
| | 8175 060100 | Chrome | Reel | 100 ft | 612825195818 | С |
| | 8175 060500 | Chrome | Reel | 500 ft | 612825195832 | С |
| | 8175 0601000 | Chrome | Reel | 1,000 ft | 612825195825 | С |

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