



**Product:** [1425A](#)

RS232/422 Low Cap, #24-15pr, FPE, O/A Foil, PVC Jkt, CM, 100Ω

Product Description

Computer EIA RS-232/422 Cable, 15-Pair, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.

Technical Specifications

Product Overview

|                        |                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | RS-232 extended distance applications; RS-423 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 | 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) | 0.0125 in (0.318 mm) | White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe, White/Green Stripe & Green/White Stripe, White/Brown Stripe & Brown/White Stripe, White/Gray Stripe & Gray/White Stripe, Red/Blue Stripe & Blue/Red Stripe, Red/Orange Stripe & Orange/Red Stripe, Red/Green Stripe & Green/Red Stripe, Red/Brown Stripe & Brown/Red Stripe, Red/Gray Stripe & Gray/Red Stripe, Black/Blue Stripe & Blue/Black Stripe, Black/Orange Stripe & Orange/Black Stripe, Black/Green Stripe & Green/Black Stripe, Black/Brown Stripe & Brown/Black Stripe, Black/Gray Stripe & Gray/Black Stripe |

Outer Shield

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

Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter      |
|--------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.040 in (1.0 mm) | 0.455 in (11.6 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.455 in (11.6 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) | 13 pF/ft (43 pF/m)            | 22 pF/ft (72 pF/m)                              | 100 Ohm                       | 78%                    | 1.8 Amps per Conductor at 25°C |
| Voltage                        |                           |                               |                                                 |                               |                        |                                |
| UL Voltage Rating              |                           |                               |                                                 |                               |                        |                                |
| 300 V (CM), 30 V (UL AWM 2919) |                           |                               |                                                 |                               |                        |                                |

Mechanical Characteristics

| Temperature    |
|----------------|
| Operating      |
| -20°C to +80°C |

|                    |                           |
|--------------------|---------------------------|
| Max. Pull Tension: | 165 lbs (74.8 kg)         |
| Bulk Cable Weight: | 90 lbs/1000ft (130 kg/km) |

Standards and Compliance

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Flammability / Reaction to Fire: | UL1685 UL Loading                                                            |
| NEC / UL Compliance:             | Article 800, CM                                                              |
| AWM Compliance:                  | AWM 2919                                                                     |
| CEC / C(UL) Compliance:          | CM                                                                           |
| European Directive Compliance:   | EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| 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: 0.333 Revision Date: 02-03-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color  | UPC          | Footnote |
|---------------|--------|--------------|----------|
| 1425A 0601000 | Chrome | 612825115137 | C        |
| 1425A 060500  | Chrome | 612825115144 | C        |

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