



**Product:** [9833](#)

RS232/422 Low Cap, #24-7pr, PE, O/A Foil+Braid, PVC Jkt, CM, 100Ω

**Product Description**

Computer EIA RS-232/422 Cable, 7-Pair, 24 AWG stranded (7x32) tinned copper conductors, polyethylene insulation, 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 | No. of Elements | Size   | Stranding | Material           |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 7               | 24 AWG | 7x32      | TC - Tinned Copper |

Insulation

| Element | Material          | Nom. Thickness       | Color Code                                                                                                                                                                                                                                                                          |
|---------|-------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pair(s) | PE - Polyethylene | 0.0155 in (0.394 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 |

Outer Shield

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

Outer Jacket

| Material                 | Nom. Thickness     | Nom. Diameter      |
|--------------------------|--------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.035 in (0.89 mm) | 0.366 in (9.30 mm) |

Overall Cable Diameter (Nominal): 0.366 in (9.30 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) | 15.5 pF/ft (50.9 pF/m)        | 27.5 pF/ft (90.2 pF/m)                          | 100 Ohm                       | 66%                    | 1.68 Amps per Conductor at 25°C |

Voltage

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

**Mechanical Characteristics**

Temperature

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

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 3.8 in (97 mm)  | 3.8 in (97 mm)    |

|                    |                           |
|--------------------|---------------------------|
| Bulk Cable Weight: | 70 lbs/1000ft (100 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 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) |
| UK Regulation Compliance:        | UKCA Mark                                                                    |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                              |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.403 Revision Date: 12-22-2023 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #       | Color  | Putup Type | Length   | UPC          | Footnote |
|--------------|--------|------------|----------|--------------|----------|
| 9833 060500  | Chrome | Reel       | 500 ft   | 612825259336 | C        |
| 9833 0601000 | Chrome | Reel       | 1,000 ft | 612825259329 | C        |

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