



**Product:** [9806](#)

RS232/422 Low Cap, #28-4pr, PP, O/A Foil+Braid, PVC Jkt, CL2, 100Ω

### Product Description

Computer EIA RS-232/422 Cable, 4-Pair, 28 AWG stranded (7x36) tinned copper conductors, polypropylene insulation, overall Beldfoil® (100% coverage) + tinned copper braid shield (90% coverage), 28 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 | Size   | Stranding | Material           |
|---------|-------------------|--------|-----------|--------------------|
| Pair(s) | 4                 | 28 AWG | 7x36      | TC - Tinned Copper |

##### Insulation

| Element | Material           | Nom. Thickness     | Nom. Insulation Diameter | Color Code  |
|---------|--------------------|--------------------|--------------------------|---|
| Pair(s) | PP - Polypropylene | 0.009 in (0.23 mm) | 0.033 in (0.84 mm)       | Black & Red, Black & White, Black & Green, Black & Blue |

##### Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type   |
|-------------|-------------------------|----------|------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 28 AWG (7x36) TC |
| Braid       | Tinned Copper (TC)      | 90%      |                  |

##### Outer Jacket

| Material                 | Nom. Thickness     | Nom. Diameter      |
|--------------------------|--------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.035 in (0.89 mm) | 0.237 in (6.02 mm) |

Overall Cable Diameter (Nominal): 0.237 in (6.02 mm)

#### Electrical Characteristics

##### Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedance | Nom. Velocity of Prop. | Max. Current                   |
|---------|--------------------|-------------------------------|---|-------------------------------|------------------------|--------------------------------|
| Pair(s) | 73.5 Ohm/1000ft    | 16.5 pF/ft (54.1 pF/m)        | 27.5 pF/ft (90.2 pF/m)                          | 100 Ohm                       | 66%                    | 0.9 Amps per Conductor at 25°C |

##### Voltage

| UL Voltage Rating |
|-------------------|
| 30 V              |

#### Mechanical Characteristics

##### Temperature

| UL Temperature | Operating      |
|----------------|----------------|
| 60°C           | -30°C to +60°C |

## Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.3 in (58 mm)  | 2.3 in (58 mm)    |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 54 lbs (24 kg) |
| Bulk Cable Weight: | 35 lbs/1000ft  |

## Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Indoor   |
| Flammability / Reaction to Fire: | UL 1685 FT4 Loading, IEC 60332-1-2   |
| CPR Compliance:                  | CPR Euroclass: Eca   |
| NEC / UL Compliance:             | Article 725, CL2   |
| AWM Compliance:                  | AWM 2960   |
| 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: 0.475 Revision Date: 01-20-2023 |
|----------------------|--|

## Part Numbers

### Variants

| Item #       | Color  | Putup Type | Length   | UPC          |
|--------------|--------|------------|----------|--------------|
| 9806 060100  | Chrome | Reel       | 100 ft   | 612825258810 |
| 9806 060500  | Chrome | Reel       | 500 ft   | 612825258834 |
| 9806 0601000 | Chrome | Reel       | 1,000 ft | 612825258827 |

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