



**Product:** [8342](#) 

RS232, Low Cap, #24-12.5pr, SR-PVC, O/A Foil+Braid, PVC Jkt, CMG

## Product Description

Computer EIA RS-232 Cable, 12-Pair, 24 AWG stranded (7x32) tinned copper conductors, semi-rigid PVC insulation, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% coverage), PVC jacket.

## Technical Specifications

### Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | RS-232 extended distance 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)      | 12              | 24 AWG | 7x32      | TC - Tinned Copper |
| Conductor(s) | 1               | 24 AWG | 7x32      | TC - Tinned Copper |

#### Insulation

| Element      | Material                                 | Nom. Thickness       | Nom. Insulation Diameter | Color Code                |
|--------------|--|----------------------|--------------------------|---------------------------|
| Pair(s)      | SR-PVC - Polyvinyl Chloride (Semi-Rigid) | 0.0105 in (0.267 mm) | 0.044 in (1.1 mm)        | Western Electric Standard |
| Conductor(s) | SR-PVC - Polyvinyl Chloride (Semi-Rigid) | 0.0105 in (0.267 mm) | 0.044 in (1.1 mm)        | Gray                      |

#### 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 | 0.040 in (1.0 mm) | 0.407 in (10.3 mm) |

Overall Cable Diameter (Nominal): 0.407 in (10.3 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)               | 28.8 Ohm/1000ft    | 30 pF/ft (98 pF/m)            | 50 pF/ft (160 pF/m)                             | 75 Ohm                        | 60%                    | 1.96 Amps per Conductor at 25°C |
|                       |                    |                               |   |                               |                        | 1.96 Amps per Conductor at 25°C |
| Nom Outer Shield DCR: |                    | 6.8 Ohm/1000ft (22 Ohm/km)    |   |                               |                        |                                 |

#### Voltage

| UL Voltage Rating                |
|----------------------------------|
| 300 V (CMG), 300 V (UL AWM 2464) |

### Mechanical Characteristics

## Temperature

| UL Temperature | Operating      |
|----------------|----------------|
| 80°C           | -30°C to +80°C |

## Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 4.0 in (100 mm) | 4.0 in (100 mm)   |

|                    |                      |
|--------------------|----------------------|
| Max. Pull Tension: | 137.5 lbs (62.37 kg) |
| Bulk Cable Weight: | 100 lbs/1000ft       |

## Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Indoor   |
| Flammability / Reaction to Fire: | UL 1685 FT4 Loading, FT4   |
| CPR Compliance:                  | CPR Euroclass: Eca   |
| NEC / UL Compliance:             | Article 800, CMG   |
| AWM Compliance:                  | AWM 2464, AWM I A  |
| CEC / C(UL) Compliance:          | CMG  |
| 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: 0.465 Revision Date: 09-07-2025 |
|----------------------|--|

## Part Numbers

### Variants

| Item #       | Color  | Putup Type | Length   | UPC          | Footnote |
|--------------|--------|------------|----------|--------------|----------|
| 8342 060100  | Chrome | Reel       | 100 ft   | 612825204671 |          |
| 8342 060500  | Chrome | Reel       | 500 ft   | 612825204695 | C        |
| 8342 0601000 | Chrome | Reel       | 1,000 ft | 612825204688 | C        |

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

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