



REPRESENTATIVE IMAGE

**Product:** [8312](#)

RS-232, Low Cap, #22-12pr, SR-PVC, O/A Foil+Braid, PVC Jkt, CMG

## Product Description

Computer EIA RS-232 Cable, 22 AWG stranded (7x30) tinned copper conductors, semi-rigid PVC insulation, 12.5 twisted pairs, 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      | Number of Element | AWG | Stranding | Material           |
|--------------|-------------------|-----|-----------|--------------------|
| Pair(s)      | 12                | 22  | 7x30      | TC - Tinned Copper |
| Conductor(s) | 1                 |     |           |                    |

#### Insulation

| Element      | Material                                 | Thickness [in.] | Color Code  |
|--------------|--|-----------------|---|
| Pair(s)      | SR-PVC - Polyvinyl Chloride (Semi-Rigid) | 0.011           | Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown, Black & Orange, Red & White, Red & Green, Red & Blue, Red & Yellow, Red & Brown |
| Conductor(s) |  | .011            | Gray  |

#### Outer Shield Material

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

#### Outer Jacket Material

| Material                 | Thickness | Nom. Diameter |
|--------------------------|-----------|---------------|
| PVC - Polyvinyl Chloride | 0.040 in  | 0.455 in      |

Cable Diameter (Nominal): 0.455 in

### Electrical Characteristics

#### Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Velocity of Prop. | Max. Current                   |
|---------|--------------------|-------------------------------|---|------------------------|--------------------------------|
| Pair(s) | 15 Ohm/1000ft      | 35 pF/ft                      | 63 pF/ft  | 60%                    | 1.5 Amps per Conductor at 25°C |

Nom Outer Shield DCR: 4.2 Ohm/1000ft

#### Voltage

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

### Mechanical Characteristics

#### Temperature

| UL Rating | Operating |
|-----------|-----------|
|           |           |

80°C (UL AWM 2464) -30°C to +80°C

#### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 4.75 in         | 4.6 in            |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 267 lbs        |
| Bulk Cable Weight: | 129 lbs/1000ft |

#### Standards and Compliance

|                                 |   |
|---------------------------------|---|
| Environmental Suitability:      | Indoor  |
| Flammability / Fire Resistance: | UL1685 FT4 Loading, FT4, IEC 60332-1-2  |
| NEC / UL Compliance:            | Article 800, CMG  |
| AWM Compliance:                 | 2464, I A   |
| CEC / C(UL) Compliance:         | CMG   |
| CPR Euroclass:                  | Eca   |
| European Directive Compliance:  | EU CE Mark, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                | China RoHS II (GB/T 26572-2011)   |

#### History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.349 Revision Date: 09-30-2020 |
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