



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 | Size | Stranding | Material |
|--------------|-------------------|--------|-----------|--------------------|
| Pair(s) | 12 | 22 AWG | 7x30 | TC - Tinned Copper |
| Conductor(s) | 1 | 22 AWG | 7x30 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------|--|--------------------|--------------------------|---|
| Pair(s) | SR-PVC - Polyvinyl Chloride (Semi-Rigid) | 0.011 in (0.28 mm) | 0.051 in (1.3 mm) | 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) | SR-PVC - Polyvinyl Chloride (Semi-Rigid) | .011 in (0.28 mm) | 0.051 in (1.3 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) | 0.455 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. Velocity of Prop. | Max. Current |
|---------|--------------------|-------------------------------|---|------------------------|---------------------------------|
| Pair(s) | 18.2 Ohm/1000ft | 35 pF/ft (110 pF/m) | 63 pF/ft (210 pF/m) | 60% | 1.96 Amps per Conductor at 25°C |
| | | | | | 1.96 Amps per Conductor at 25°C |

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. |
|-----------------|-------------------|
| 4.6 in (120 mm) | 4.6 in (120 mm) |

| | |
|--------------------|------------------|
| Max. Pull Tension: | 227 lbs (103 kg) |
| Bulk Cable Weight: | 129 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

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| Update and Revision: | Revision Number: 0.525 Revision Date: 01-20-2023 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|--------------|--------|------------|----------|--------------|
| 8312 060100 | Chrome | Reel | 100 ft | 612825203162 |
| 8312 060500 | Chrome | Reel | 500 ft | 612825203186 |
| 8312 0601000 | Chrome | Reel | 1,000 ft | 612825203179 |

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