Belden



# Product: 9939

RS232, #22-3c, 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, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% coverage), PVC jacket.

## Technical Specifications

### Product Overview

| | |
|---|---|
| Suitable Applications: | RS-232 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 |
|---|---|---|---|---|
| Conductor(s) | 3 | 22 AWG | 7x30 | TC - Tinned Copper |

**Insulation**

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---|---|---|---|---|
| Conductor(s) | SR-PVC - Polyvinyl Chloride (Semi-Rigid) | 0.011 in (0.28 mm) | 0.050 in (1.3 mm) | Black, White, Red |

**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 | 0.035 in (0.89 mm) | 0.202 in (5.13 mm) |

| | |
|---|---|
| Overall Cable Diameter (Nominal): | 0.202 in (5.13 mm) |

### Electrical Characteristics

**Electricals**

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current |
|---|---|---|---|---|
| Conductor(s) | 14.7 Ohm/1000ft | 37 pF/ft (120 pF/m) | 67 pF/ft (220 pF/m) | 2.8 Amps per Conductor at 25ºC |

| | |
|---|---|
| Nom Outer Shield DCR@Cond DCR1-cnv: | 6.2 Ohm/1000ft (20 Ohm/km) |

**Voltage**

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

### Mechanical Characteristics

**Temperature**

| UL Temperature | Operating |
|---|---|
| 60°C (UL CMG);80°C (UL AWM 2464) | -30°C to +80°C |

**Bend Radius**

| Stationary Min. | Installation Min. |
|---|---|
| 2.4 in (61 mm) | 2.4 in (61 mm) |

| | |
|---|---|
| Max. Pull Tension: | 45 lbs (20 kg) |
| Bulk Cable Weight: | 24 lbs/1000ft |

## Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor (Not Riser or Plenum), Indoor |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | UL 1685 FT4 Loading, FT4, IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | Article 800, CMG |
| AWM Compliance: | AWM 2464 |
| 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: 0.499 Revision Date: 09-07-2025 |

## Part Numbers

**Variants**

| Item # | Color | UPC |
|---|---|---|
| 9939 060100 | Chrome | 612825264637 |
| 9939 0601000 | Chrome | 612825264644 |
| 9939 060500 | Chrome | 612825264651 |
| 9939 0605000 | Chrome | 612825264668 |

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