



Product: [9681](#) 

RS232/422 Low Cap, #24-4pr, PO, O/A Foil, PVC Jkt, CM, 100Ω

Product Description

Computer EIA RS-232/422 Cable, 24 AWG stranded (7x32) tinned copper conductors, polyethylene insulation, twisted pairs, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | rs-232 extended distance applications; rs-423 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 | 24 AWG | 7x32 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---------|-------------------|--------------------|--------------------------|--|
| Pair(s) | PE - Polyethylene | 0.016 in (0.41 mm) | 0.054 in (1.4 mm) | White/Blue & Blue/White, White/Orange & Orange/White, White/Green & Green/White, White/Brown & Brown/White |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------|--------------------|---------------|
| PVC - Polyvinyl Chloride | 0.035 in (0.89 mm) | 0.307 in |

Overall Cable Diameter (Nominal): 0.307 in

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Nom. Velocity of Prop. | Max. Current |
|--------------------|-------------------------------|---|-------------------------------|------------------------|---------------------------------|
| 28.8 Ohm/1000ft | 15.5 pF/ft (50.9 pF/m) | 27.5 pF/ft (90.2 pF/m) | 100 Ohm | 66% | 1.47 Amps per Conductor at 30°C |

Voltage

| UL Voltage Rating |
|-----------------------------|
| 30 V (AWM 2919), 300 V (CM) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|----------------|
| 80°C | -20°C to +80°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-------------------|-------------------|
| 3.07 in (78.0 mm) | 3.07 in |

| | |
|--------------------|---------------|
| Max. Pull Tension: | 49.5 lbs |
| Bulk Cable Weight: | 39 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor |
| Flammability / Reaction to Fire: | UL1685 UL Loading, IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | Article 800, CM |
| AWM Compliance: | AWM 2919 |
| CEC / C(UL) Compliance: | CM |
| European Directive Compliance: | EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.343 Revision Date: 12-21-2021 |
|----------------------|--|

Variants

| Item # | Color | Putup Type | Length | UPC |
|--------------|--------|------------|----------|--------------|
| 9681 060500 | Chrome | Reel | 500 ft | 612825256960 |
| 9681 0601000 | Chrome | Reel | 1,000 ft | 612825256953 |
| 9681 0605000 | Chrome | Reel | 5,000 ft | 612825256977 |

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