



Product: [88109](#)

RS232/422 Low Cap, #24-9pr, FFEP, O/A Foil, PVDF Jkt, CMP, 100Ω

Product Description

Computer EIA RS-232/422 Cable, 9-Pair, 24 AWG stranded (7x32) tinned copper conductors, foam FEP insulation, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, fluorocopolymer jacket, plenum rated

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | extreme high temperature environments; rs-232 extended distance applications; rs-422 applications; computer communication; 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) | 9 | 24 AWG | 7x32 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Color Code |
|---------|---|--------------------|---|
| Pair(s) | FEP - Fluorinated Ethylene Propylene (Foam) | 0.015 in (0.38 mm) | White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe, White/Green Stripe & Green/White Stripe, White/Brown Stripe & Brown/White Stripe, White/Gray Stripe & Gray/White Stripe, Red/Blue Stripe & Blue/Red Stripe, Red/Orange Stripe & Orange/Red Stripe, Red/Green Stripe & Green/Red Stripe, Red/Brown Stripe & Brown/Red Stripe |

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 |
|--------------------------------|--------------------|--------------------|
| PVDF - Polyvinylidene Fluoride | 0.014 in (0.36 mm) | 0.352 in (8.94 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.352 in (8.94 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Nom. Velocity of Prop. | Max. Current |
|---------|---------------------------|-------------------------------|---|-------------------------------|------------------------|--------------------------------|
| Pair(s) | 24 Ohm/1000ft (79 Ohm/km) | 12.95 pF/ft (42.49 pF/m) | 23.3 pF/ft (76.4 pF/m) | 100 Ohm | 78% | 1.1 Amps per Conductor at 25°C |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMP) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|-----------------|
| 150°C | -20°C to +150°C |

| | |
|--------------------|--------------------------|
| Max. Pull Tension: | 104 lbs (47.2 kg) |
| Bulk Cable Weight: | 65 lbs/1000ft (97 kg/km) |

Standards and Compliance

| | |
|----------------------------------|---|
| Flammability / Reaction to Fire: | NFPA 262 Plenum Flame Test (UL910) |
| NEC / UL Compliance: | Article 800, CMP |
| CEC / C(UL) Compliance: | CMP |
| European Directive Compliance: | EU CE Mark, REACH, 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: 0.318 Revision Date: 12-22-2023 |
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Part Numbers

Variants

| Item # | Color | UPC | Footnote |
|---------------|-------|--------------|----------|
| 88109 0081000 | Gray | 612825216766 | C |
| 88109 008500 | Gray | 612825216773 | C |

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