



Product: [88107](#)

RS232/422 Low Cap, #24-7.5pr, FFEP, O/A Foil, PVDF Jkt, CMP, 100Ω

Product Description

Computer EIA RS-232/422 Cable, 7.5-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

| Element | No. of Elements | Size | Stranding | Material |
|--------------|-----------------|--------|-----------|--------------------|
| Pair(s) | 7 | 24 AWG | 7x32 | TC - Tinned Copper |
| Conductor(s) | 1 | 24 AWG | 7x32 | TC - Tinned Copper |

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------|---|--------------------|--------------------------|---------------------------|
| Pair(s) | FEP - Fluorinated Ethylene Propylene (Foam) | 0.015 in (0.38 mm) | 0.054 in (1.4 mm) | Western Electric Standard |
| Conductor(s) | FEP - Fluorinated Ethylene Propylene (Foam) | 0.015 in (0.38 mm) | 0.054 in (1.4 mm) | White |

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

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------------|--------------------|--------------------|
| PVDF - Polyvinylidene Fluoride | 0.014 in (0.36 mm) | 0.305 in (7.75 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.305 in (7.75 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

| 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) | 28.8 Ohm/1000ft | 12.95 pF/ft (42.49 pF/m) | 23.3 pF/ft (76.4 pF/m) | 100 Ohm | 78% | 1.96 Amps per Conductor at 25°C |
| | | | | | | 1.96 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 |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 3.0 in (76 mm) | 3.0 in (76 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 82 lbs (37 kg) |
| Bulk Cable Weight: | 55 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor |
| Flammability / Reaction to Fire: | NFPA 262 (UL910), FT6 |
| 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: 0.433 Revision Date: 02-03-2025 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | UPC | Footnote |
|---------------|-------|--------------|----------|
| 88107 0081000 | Gray | 612825216742 | C |
| 88107 008500 | Gray | 612825216759 | C |

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