



Product: [89705](#)

RS232/422 Low Cap, #24-5pr, FFEP, Individ. Foil, PVDF Jkt, CMP, 100Ω

Product Description

Computer EIA RS-232/422, Digital Audio Cable, 5-Pair, 24 AWG stranded (7x32) tinned copper conductor, foam FEP insulation, individually shielded pairs with Beldfoil® (100% coverage), 24 AWG stranded tinned copper drain wire, overall 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, ...); digital audio; panel wiring |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Construction Details

Conductor

| Element | No. of Elements | Size   | Stranding | Material           |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 5               | 24 AWG | 7x32      | TC - Tinned Copper |

Insulation

| Element | Material                                    | Nom. Thickness     | Color Code                                                                                                                                                                                                |
|---------|---------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pair(s) | FEP - Fluorinated Ethylene Propylene (Foam) | 0.019 in (0.48 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, Green, Blue                                                                                                                                                                                          |

Inner Shield

| Element | Shield Type | Material                | Coverage | Drainwire Type   | Notes     |
|---------|-------------|-------------------------|----------|------------------|-----------|
| Pair(s) | Tape        | Bi-Laminate (Alum+Poly) | 100%     | 24 AWG (7x32) TC | each pair |

Outer Jacket

| Material                       | Nom. Thickness     | Nom. Diameter      |
|--------------------------------|--------------------|--------------------|
| PVDF - Polyvinylidene Fluoride | 0.014 in (0.36 mm) | 0.327 in (8.31 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.327 in (8.31 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) | 13.5 pF/ft (44.3 pF/m)        | 22.5 pF/ft (73.8 pF/m)                          | 100 Ohm                       | 76%                    | 2 Amps per Conductor at 25°C |

Voltage

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

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|-----------|
|----------------|-----------|

|       |                 |
|-------|-----------------|
| 150°C | -40°C to +150°C |
|-------|-----------------|

|                    |                          |
|--------------------|--------------------------|
| Max. Pull Tension: | 165 lbs (74.8 kg)        |
| Bulk Cable Weight: | 53 lbs/1000ft (79 kg/km) |

Standards and Compliance

|                                  |                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor                                                                              |
| Flammability / Reaction to Fire: | NFPA 262 Plenum Flame Test (UL910)                                                  |
| CPR Compliance:                  | CPR Euroclass: Eca                                                                  |
| 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) |
| UK Regulation Compliance:        | UKCA Mark                                                                           |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                                     |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.329 Revision Date: 12-22-2023 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color | UPC          | Footnote |
|---------------|-------|--------------|----------|
| 89705 0081000 | Gray  | 612825221098 | C        |
| 89705 008500  | Gray  | 612825221104 | C        |

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