



**Product:** [89503](#)

RS232, #24-3pr, FEP, O/A Foil, FEP Jkt, CMP

### Product Description

Computer EIA RS-232 Cable, 24 AWG stranded (7x32) tinned copper conductors, FEP insulation, 3 twisted pair, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, FEP jacket, plenum rated

### Technical Specifications

#### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | extreme high/low temperature environments; 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           |
|---------|-----------------|------|-----------|--------------------|
| Pair(s) | 3               | 24   | 7x32      | TC - Tinned Copper |

##### Insulation

| Material                             | Nom. Thickness     | Nom. Insulation Diameter | Color Code                                |
|--------------------------------------|--------------------|--------------------------|---|
| FEP - Fluorinated Ethylene Propylene | 0.006 in (0.15 mm) | 0.036 in (0.91 mm)       | Black & Red, Black & White, Black & Green |

##### 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      |
|--------------------------------------|--------------------|--------------------|
| FEP - Fluorinated Ethylene Propylene | 0.015 in (0.38 mm) | 0.177 in (4.50 mm) |

#### Electrical Characteristics

##### Electricals

| Nom. Conductor DCR | Nom. Inner Shield DCR           | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                   |
|--------------------|---------------------------------|-------------------------------|---|--------------------------------|
| 28.8 Ohm/1000ft    | 10.46 Ohm/1000ft (34.32 Ohm/km) | 21 pF/ft (69 pF/m)            | 40 pF/ft (130 pF/m)                             | 1.5 Amps per Conductor at 25°C |

##### Voltage

| UL Voltage Rating |
|-------------------|
| 300 V             |

#### Mechanical Characteristics

##### Temperature

| UL Temperature | Operating       |
|----------------|-----------------|
| 150°C          | -70°C To +150°C |

##### Bend Radius

| Stationary Min.   | Installation Min. |
|-------------------|-------------------|
| 1.77 in (45.0 mm) | 1.77 in (45.0 mm) |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 39 lbs (18 kg) |
| Bulk Cable Weight: | 21 lbs/1000ft  |

## Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Outdoor, Sunlight Resistance, Oil Resistance                                 |
| Flammability / Reaction to Fire: | NFPA 262 (UL910), FT6, IEC 60332-1-2   |
| CPR Compliance:                  | CPR Euroclass: Eca   |
| NEC / UL Compliance:             | Article 800, CMP   |
| CEC / C(UL) Compliance:          | CMP  |
| 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)  |
| Non-Plenum Number:               | 9503   |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.431 Revision Date: 01-20-2023 |
|----------------------|--|

## Part Numbers

### Variants

| Item #        | Color | UPC          | Footnote |
|---------------|-------|--------------|----------|
| 89503 002100  | Red   | 612825220992 | C        |
| 89503 0021000 | Red   | 612825221005 | C        |
| 89503 002500  | Red   | 612825221012 | C        |

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