



**Product:** [89505](#) 

RS232, #24-5pr, FEP, O/A Foil, FEP Jkt, CMP

## Product Description

Computer EIA RS-232 Cable, 24 AWG stranded (7x32) tinned copper conductors, FEP insulation, 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 | Number of Element | Size   | Stranding | Material           |
|---------|-------------------|--------|-----------|--------------------|
| Pair(s) | 5                 | 24 AWG | 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, Black & Blue, Black & Yellow |

#### 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) | 0.199 in      |

### Electrical Characteristics

#### Electricals

| Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                   |
|--------------------|-------------------------------|-------------------------------------------------|--------------------------------|
| 28.8 Ohm/1000ft    | 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 RMS         |

### Mechanical Characteristics

#### Temperature

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

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 61 lbs (28 kg) |
| Bulk Cable Weight: | 30 lbs/1000ft  |

### Standards and Compliance

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Environmental Suitability:       | Outdoor, Sunlight Resistance, Oil Resistance                                 |
| Flammability / Reaction to Fire: | NFPA 262 Plenum Flame Test (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) |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                              |
| Non-Plenum Number:               | 9505                                                                         |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.340 Revision Date: 10-19-2021 |
|----------------------|--------------------------------------------------|

Variants

| Item #        | Color | UPC          |
|---------------|-------|--------------|
| 89505 002100  | Red   | 612825221043 |
| 89505 0021000 | Red   | 612825221050 |

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