



**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, 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) | 3                 | 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 |

#### 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      |

### 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 RMS         |

### Mechanical Characteristics

#### Temperature

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

|                    |                |
|--------------------|----------------|
| 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 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:               | 9503                                                                         |

History

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

Variants

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

© 2021 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.