



**Part Number: 9503**

RS-232, #24-3pr, SR-PVC, O/A Foil, PVC Jkt, CMG, 75Ω

**Product Description**

Computer EIA RS-232 Cable, 24 AWG stranded (7x32) tinned copper conductors, semi-rigid PVC insulation, twisted pairs, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

| AWG | Stranding | Material           | No. of Conductors | No. of Pairs |
|-----|-----------|--------------------|-------------------|--------------|
| 24  | 7x32      | TC - Tinned Copper | 6                 | 3            |

|                  |        |
|------------------|--------|
| Conductor Count: | 6      |
| Conductor Size:  | 24 AWG |

**Insulation**

| Material                                | Nominal Wall Thickness |
|---|------------------------|
| S-R PVC - Semi-Rigid Polyvinyl Chloride | 0.011 in               |

**Color Chart**

| Number | Color         |
|--------|---------------|
| 1      | Black & Red   |
| 2      | Black & White |
| 3      | Black & Green |

**Outer Shield Material**

| Type | Material           | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|--------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Aluminum/Polyester | Beldfoil®           | 100 %        | TC - Tinned Copper | 24            | 7x32 mm                      |

**Outer Jacket Material**

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.232 in         | 0.032 in               |

**Electrical Characteristics**

**Conductor DCR**

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 24 Ohm/1000ft         | 17 Ohm/1000ft            |

**Capacitance**

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 30 pF/ft                                | 50 pF/ft  |

**Impedance**

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm                           |

**Delay**

| Max. Delay Skew | Nominal Velocity of Propagation (VP) [%] |
|-----------------|--|
| 60 ns/100m      | 60 %                                     |

#### Current

| Max. Recommended Current [A]     |
|----------------------------------|
| 1.76 Amps per conductor @ 25°C A |

#### Voltage

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

#### Temperature Range

|                       |                          |
|-----------------------|--------------------------|
| UL Temp Rating:       | 80°C (UL AWM Style 2464) |
| Operating Temp Range: | -30°C To +80°C           |

#### Mechanical Characteristics

|                                  |               |
|----------------------------------|---------------|
| Bulk Cable Weight:               | 26 lbs/1000ft |
| Max Recommended Pulling Tension: | 33 lbs        |
| Min Bend Radius/Minor Axis:      | 2.5 in        |

#### Standards

|                          |                   |
|--------------------------|-------------------|
| NEC/(UL) Specification:  | CMG               |
| CEC/C(UL) Specification: | CMG               |
| UL AWM Style:            | 2464 (300 V 80°C) |
| CSA AWM Specification:   | AWM I A           |
| CPR Euroclass:           | Eca               |

#### Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/96/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01                    |
| CA Prop 65 (CJ for Wire & Cable):     | Yes                           |
| MII Order #39 (China RoHS):           | Yes                           |

#### Flammability, LS0H, Toxicity Testing

|                       |                    |
|-----------------------|--------------------|
| UL Flammability:      | UL1685 FT4 Loading |
| CSA Flammability:     | FT4                |
| ISO/IEC Flammability: | IEC 60332-1-2      |
| UL voltage rating:    | 300 V RMS          |

#### Plenum/Non-Plenum

|                |              |
|----------------|--------------|
| Plenum (Y/N):  | No           |
| Plenum Number: | 89503, 82503 |

#### Part Number

#### Variants

| Item #       | Color  | Footnote |
|--------------|--------|----------|
| 9503.0030    | Chrome |          |
| 9503.00U152  | Chrome |          |
| 9503.00U305  | Chrome |          |
| 9503.01152   | Chrome |          |
| 9503.01305   | Chrome |          |
| 9503 060100  | Chrome |          |
| 9503 0601000 | Chrome | C        |
| 9503 060500  | Chrome | C        |

|               |        |   |
|---------------|--------|---|
| 9503 0605000  | Chrome | C |
| 9503 060U1000 | Chrome |   |
| 9503 060U500  | Chrome |   |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

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