



**Product:** [9509](#)

RS-232, #24-9pr, 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, 9 twisted pairs, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire (continued), PVC jacket.

## Technical Specifications

### Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | 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) | 9                 | 24 AWG | 7x32      | TC - Tinned Copper |

#### Insulation

| Element | Material                                 | Nom. Thickness     | Color Code   |
|---------|--|--------------------|--|
| Pair(s) | SR-PVC - Polyvinyl Chloride (Semi-Rigid) | 0.011 in (0.28 mm) | Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown, Black & Orange, Red & White, Red & 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      |
|--------------------------|--------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.032 in (0.81 mm) | 0.334 in (8.48 mm) |

Overall Cable Diameter (Nominal): 0.334 in (8.48 mm)

### Electrical Characteristics

#### Electricals

| Element | Nom. Conductor DCR        | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Velocity of Prop. | Max. Current                   |
|---------|---------------------------|-------------------------------|---|------------------------|--------------------------------|
| Pair(s) | 24 Ohm/1000ft (79 Ohm/km) | 30 pF/ft (98 pF/m)            | 50 pF/ft (160 pF/m)                             | 60%                    | 1.1 Amps per Conductor at 25°C |

#### Voltage

| UL Voltage Rating                |
|----------------------------------|
| 300 V (CMG), 300 V (UL AWM 2464) |

### Mechanical Characteristics

#### Temperature

| UL Temperature     | Operating      |
|--------------------|----------------|
| 80°C (UL AWM 2464) | -30°C to +80°C |

#### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
|                 |                   |

|                |                |
|----------------|----------------|
| 3.3 in (84 mm) | 3.3 in (84 mm) |
|----------------|----------------|

|                    |                   |
|--------------------|-------------------|
| Max. Pull Tension: | 105 lbs (47.6 kg) |
|--------------------|-------------------|

|                    |                          |
|--------------------|--------------------------|
| Bulk Cable Weight: | 62 lbs/1000ft (92 kg/km) |
|--------------------|--------------------------|

## Standards and Compliance

|                            |        |
|----------------------------|--------|
| Environmental Suitability: | Indoor |
|----------------------------|--------|

|                                  |  |
|----------------------------------|--|
| Flammability / Reaction to Fire: | UL1685 FT4 Loading, FT4, IEC 60332-1-2 |
|----------------------------------|--|

|                 |                    |
|-----------------|--------------------|
| CPR Compliance: | CPR Euroclass: Eca |
|-----------------|--------------------|

|                      |                  |
|----------------------|------------------|
| NEC / UL Compliance: | Article 800, CMG |
|----------------------|------------------|

|                 |                      |
|-----------------|----------------------|
| AWM Compliance: | AWM 2464, AWM I/II A |
|-----------------|----------------------|

|                         |     |
|-------------------------|-----|
| CEC / C(UL) Compliance: | CMG |
|-------------------------|-----|

|                                |  |
|--------------------------------|--|
| 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) |
|------------------|---------------------------------|

|                |       |
|----------------|-------|
| Plenum Number: | 82509 |
|----------------|-------|

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.367 Revision Date: 02-08-2022 |
|----------------------|--|

## Part Numbers

### Variants

| Item #       | Color  | Putup Type | Length   | UPC/EAN       |
|--------------|--------|------------|----------|---------------|
| 9509.0030    | Chrome | Reel       | 30 m     | 8719605021595 |
| 9509 060100  | Chrome | Reel       | 100 ft   | 612825254515  |
| 9509.01152   | Chrome | Reel       | 152 m    | 8719605021618 |
| 9509.00305   | Chrome | Reel       | 305 m    | 8719605021601 |
| 9509 060500  | Chrome | Reel       | 500 ft   | 612825254539  |
| 9509 0601000 | Chrome | Reel       | 1,000 ft | 612825254522  |
| 9509 0605000 | Chrome | Reel       | 5,000 ft | 612825254546  |

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