



Product: [9510](#)

RS232, #24-10pr, 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, 10 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 |
|------------------------|---|

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | No. of Pairs |
|---------|-----|-----------|--------------------|--------------|
| Pair(s) | 24 | 7x32 | TC - Tinned Copper | 10 |

| | |
|------------------|----|
| Conductor Count: | 20 |
|------------------|----|

Insulation

| Element | Material | Nominal Wall Thickness |
|---------|---|------------------------|
| Pair(s) | S-R PVC - Semi-Rigid Polyvinyl Chloride | 0.0105 in |

Color Chart

| Number | Color |
|--------|----------------|
| 1 | Black & Red |
| 2 | Black & White |
| 3 | Black & Green |
| 4 | Black & Blue |
| 5 | Black & Yellow |
| 6 | Black & Brown |
| 7 | Black & Orange |
| 8 | Red & White |
| 9 | Red & Green |
| 10 | Red & Blue |

Color Chart 2

| Number |
|--------|
| 12 |

Outer Shield Material

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

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.368 in | 0.034 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 24 Ohm/1000ft | 16.5 Ohm/1000ft |

Capacitance

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

Delay

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

Current

| Max. Recommended Current [A] |
|---------------------------------|
| 1.1 Amps per conductor @ 25°C A |

Voltage

| UL Description | UL Voltage Rating |
|----------------|-------------------|
| CMG | 300 V |
| UL AWM 2464 | 300 V |

Temperature Range

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

Mechanical Characteristics

| | |
|----------------------------------|---------------|
| Bulk Cable Weight: | 68 lbs/1000ft |
| Max Recommended Pulling Tension: | 110 lbs |
| Min Bend Radius/Minor Axis: | 3.75 in |

Standards

| | |
|--------------------------|---------|
| NEC/(UL) Specification: | CMG |
| CEC/C(UL) Specification: | CMG |
| UL AWM Style: | 2464 |
| CSA AWM Specification: | I/II, 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 |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Flammability, LS0H, Toxicity Testing

| | |
|-----------------------|--------------------|
| C(UL) Flammability: | FT4 |
| UL Flammability: | UL1685 FT4 Loading |
| ISO/IEC Flammability: | IEC 60332-1-2 |
| UL voltage rating: | 300 V |

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC/EAN |
|--------------|--------|------------|----------|---------------|
| 9510.0030 | Chrome | Reel | 30 m | 8719605021632 |
| 9510 060100 | Chrome | Reel | 100 ft | 612825254553 |
| 9510.00152 | Chrome | Reel | 152 m | 8719605021625 |
| 9510.00305 | Chrome | Reel | 305 m | 8719605021649 |
| 9510 060500 | Chrome | Reel | 500 ft | 612825254584 |
| 9510 0601000 | Chrome | Reel | 1,000 ft | 612825254560 |
| 9510 0602000 | Chrome | Reel | 2,000 ft | 612825254577 |
| 9510 0605000 | Chrome | Reel | 5,000 ft | 612825254591 |

Footnote: C - CRATE REEL PUT-UP.

Footnote: Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

History

Update and Revision: Revision Number: 0.255 Revision Date: 05-19-2020

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