



**Product:** [82512](#)

RS-232, #24-12.5pr, FEP, O/A Foil, LS-PVC 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, Flamarrest® jacket, plenum rated.

## Technical Specifications

### Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | indoor plenum 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

| AWG | Stranding | Material           | No. of Conductors | No. of Pairs |
|-----|-----------|--------------------|-------------------|--------------|
| 24  | 7x32      | TC - Tinned Copper |                   | 12           |
|     |           |                    | 1                 |              |

|                  |    |
|------------------|----|
| Conductor Count: | 25 |
|------------------|----|

#### Insulation

| Material                             | Nominal Wall Thickness |
|--------------------------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.006 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     |
| 11                | Red & Yellow   |
| 12                | Red & Brown    |
| Single Conductor+ | Yellow         |

#### 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                                | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|---|---------------------|------------------|------------------------|
| PVC-LS - Polyvinyl Chloride (Low Smoke) | Flamarrest®         | 0.278 in         | 0.015 in               |

## Electrical Characteristics

### Conductor DCR

#### Nominal Conductor DCR

15 Ohm/1000ft

### Capacitance

#### Nom. Capacitance Conductor to Conductor

23 pF/ft

#### Nom. Capacitance Conductor to Other Conductor to Shield

42 pF/ft

### Inductance

#### Nominal Inductance

0.17  $\mu$ H/ft

### High Frequency (Nominal/Typical)

#### Nom. Insertion Loss

22 dB/100m

### Current

#### Max. Recommended Current [A]

1.5 Amps per conductor @ 25°C A

### Voltage

#### UL Voltage Rating

300 V RMS

## Temperature Range

Operating Temp Range: 0°C To +60°C

## Mechanical Characteristics

Bulk Cable Weight: 56 lbs/1000ft

Max Recommended Pulling Tension: 143 lbs

Min Bend Radius/Minor Axis: 3 in

## Standards

NEC Articles: 800

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

## 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): 2005-10-01

MII Order #39 (China RoHS): Yes

## Flammability, LSOH, Toxicity Testing

UL Flammability: NFPA 262 Plenum Flame Test (UL910)

CSA Flammability: FT6

UL voltage rating: 300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N): Yes

## Part Number

### Variants

| Item #        | Color   | UPC          |
|---------------|---------|--------------|
| 82512 8771000 | Natural | 612825197270 |

Footnote: C - CRATE REEL PUT-UP.

## History

Update and Revision: Revision Number: 0.296 Revision Date: 04-28-2020

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