



**Product:** [82504](#) 

RS232, #24-4pr, 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, Flammarrest® jacket, plenum rated

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material           | No. of Pairs |
|-----|-----------|--------------------|--------------|
| 24  | 7x32      | TC - Tinned Copper | 4            |

|                  |   |
|------------------|---|
| Conductor Count: | 8 |
|------------------|---|

#### Insulation

| Material                             | Nominal Wall Thickness |
|--------------------------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.006 in               |

#### Color Chart

| Number | Color         |
|--------|---------------|
| 1      | Black & White |
| 2      | Black & Red   |
| 3      | Black & Green |
| 4      | Black & Blue  |

#### 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                              | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|---------------------------------------|---------------------|------------------|------------------------|
| LS PVC - Low Smoke Polyvinyl Chloride | Flammarrest®        | 0.193 in         | 0.014 in               |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 24.1 Ohm/1000ft       | 15 Ohm/1000ft            |

#### Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|---------------------------------------------------------|
| 25 pF/ft                                | 45 pF/ft                                                |

#### Inductance

| Nominal Inductance |
|--------------------|
| 0.17 µH/ft         |

#### 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:               | 22 lbs/1000ft |
| Max Recommended Pulling Tension: | 50 lbs        |
| Min Bend Radius/Minor Axis:      | 2 in          |

Standards

|                          |     |
|--------------------------|-----|
| 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): | 2005-04-01                    |
| 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          | Footnote |
|----------------|---------|--------------|----------|
| 82504 8771000  | Natural | 612825197218 | C        |
| 82504 877U1000 | Natural | 612825197201 |          |

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

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.226 Revision Date: 02-01-2020 |
|----------------------|--------------------------------------------------|

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