



Product: [1521A](#)



RGB Video, Mini #30-4 Coax Stranded TC, CL2

## Product Description

RGB Video Coax, CL2-Rated, 4-30 AWG stranded tinned copper conductors, foam HDPE insulation, Duofoil® +90% tinned copper braid shield, overall Beldfoil® shield, inner PVC jackets, PVC jacket

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material           | Nominal Diameter | No. of Coax |
|-----|-----------|--------------------|------------------|-------------|
| 30  | 7x38      | TC - Tinned Copper | 0.012 in         | 4           |

Conductor Count: 4

#### Insulation

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.056 in         |

#### Color Chart

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

#### Inner Shield

| Type  | Layer | Material                      | Material Trade Name | Coverage [%] |
|-------|-------|-------------------------------|---------------------|--------------|
| Tape  | 1     | Tri-Laminate (Alum+Poly+Alum) | Duofoil®            | 100%         |
| Braid | 2     | Tinned Copper (TC)            |                     | 90%          |

#### Inner Jacket

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.102 in         |

#### Outer Shield

| Type | Material                | Material Trade Name | Coverage [%] |
|------|-------------------------|---------------------|--------------|
| Tape | Bi-Laminate (Alum+Poly) | Beldfoil®           | 100%         |

#### Outer Jacket

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.31 in          |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--|--------------------------|---------------------|
| 100 Ohm/1000ft        | 100 Ohm/1000ft                             | 9.5 Ohm/1000ft           | 9.5 Ohm/1000ft      |

## Capacitance

| Nom. Capacitance Conductor to Other Conductor to Shield | Nom. Capacitance Conductor to Shield |
|---|--------------------------------------|
| 17.3 pF/ft  | 17.3 pF/ft                           |

## Impedance

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

## Return Loss (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
| 10-40 MHz       | 25 dB               |

## High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz           | 0.8 dB/100ft        |
| 5 MHz           | 1.5 dB/100ft        |
| 10 MHz          | 2.2 dB/100ft        |
| 30 MHz          | 4 dB/100ft          |
| 50 MHz          | 5.4 dB/100ft        |
| 100 MHz         | 8.2 dB/100ft        |
| 200 MHz         | 12.5 dB/100ft       |
| 400 MHz         | 18.9 dB/100ft       |
| 700 MHz         | 26.5 dB/100ft       |
| 900 MHz         | 30.8 dB/100ft       |
| 1000 MHz        | 32.8 dB/100ft       |

## Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.3 ns/ft     | 78%                                      |

## Voltage

| UL Voltage Rating | Voltage Rating [V] |
|-------------------|--------------------|
| 300 V RMS         | 30 V RMS           |
| 300 V RMS (CL2)   |                    |

Electrical Characteristics Notes: 30 V RMS (UL AWM Style 1354); 300 V RMS (CL2)

## Temperature Range

|                              |                |
|------------------------------|----------------|
| Non-UL Temp Rating:          | 60°C           |
| UL Temp Rating:              | 60°C           |
| Operating Temperature Range: | -40°C To +60°C |

## Mechanical Characteristics

|                              |               |
|------------------------------|---------------|
| Bulk Cable Weight:           | 55 lbs/1000ft |
| Max. Pull Tension:           | 56 lbs        |
| Min. Bend Radius/Minor Axis: | 3 in          |

## Standards

|                          |  |
|--------------------------|--|
| NEC/(UL) Compliance:     | CL2                                      |
| UL AWM Style Compliance: | AWM 1354 (each coax), AWM 2688 (overall) |
| CPR Euroclass:           | Eca                                      |
| RG Type:                 | Ultra-miniature 59                       |

## Applicable Environmental and Other Programs

|  |                               |
|--|-------------------------------|
| Environmental Space:                         | Indoor (Not Riser or Plenum)  |
| EU Directive 2000/53/EC (ELV):               | Yes                           |
| EU Directive 2003/11/EC (BFR):               | Yes                           |
| EU Directive 2011/65/EU (RoHS 2):            | Yes                           |
| EU Directive 2012/19/EU (WEEE):              | Yes                           |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes                           |
| EU Directive Compliance:                     | EU Directive 2003/11/EC (BFR) |

|                             |     |
|-----------------------------|-----|
| EU CE Mark:                 | No  |
| MII Order #39 (China RoHS): | Yes |

### Suitability

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

### Flammability, LSOH, Toxicity Testing

|                    |               |
|--------------------|---------------|
| IEC Flammability:  | IEC 60332-1-2 |
| UL voltage rating: | 300 V RMS     |

### Plenum/Non-Plenum

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

### Related Part Numbers

#### Variants

| Item #        | Color | Put-Up Type | Length   | UPC          |
|---------------|-------|-------------|----------|--------------|
| 1521A 010500  | Black | Reel        | 500 ft   | 612825356547 |
| 1521A 0101000 | Black | Reel        | 1,000 ft | 612825356530 |

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

### History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.389 Revision Date: 04-29-2024 |
|----------------------|--|

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