

## 1520A Coax - Bundled RGB Coaxial Cable Miniature Type



For more Information  
please call

1-800-Belden1



### Description:

30 AWG stranded (7x38) .012" TC conductors, foam HDPE insulation, coaxes w/Duofoil® + TC braid shield (90% coverage), overall Beldfoil® shield, overall PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 3      | 30  | 7x38      | TC - Tinned Copper | .013       |

#### Insulation

##### Insulation Material:

| Insulation Material                    | Dia. (in.) |
|--|------------|
| FHDPE - Foam High Density Polyethylene | .056       |

#### Inner Shield

##### Inner Shield Material:

| Layer # | Inner Shield Trade Name | Type  | Inner Shield Material                      | Coverage (%) |
|---------|-------------------------|-------|--|--------------|
| 1       | Duofoil®                | Tape  | Aluminum Foil-Polyester Tape-Aluminum Foil | 100          |
| 2       |                         | Braid | TC - Tinned Copper                         | 90           |

#### Inner Jacket

##### Inner Jacket Material:

| Inner Jacket Material    | Nom. Dia. (in.) |
|--------------------------|-----------------|
| PVC - Polyvinyl Chloride | .102            |

##### Inner Jacket Color Code Chart:

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

#### Outer Shield

##### Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

#### Outer Jacket

##### Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

#### Overall Cable

Overall Nominal Diameter: 0.283 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +60°C

UL Temperature Rating: 60°C (UL AWM Style 1354)

Bulk Cable Weight: 46 lbs/1000 ft.

Max. Recommended Pulling Tension: 42 lbs.

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|  |       |
|--|-------|
| Min. Bend Radius (Install)/Minor Axis: | 3 in. |
|--|-------|

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |  |
|---------------------------------------|--|
| NEC/(UL) Specification:               | CL2  |
| AWM Specification:                    | UL Style 1354 (each coax); UL Style 2688 (overall) |
| EU CE Mark:                           | No   |
| EU Directive 2000/53/EC (ELV):        | Yes  |
| EU Directive 2002/95/EC (RoHS):       | Yes  |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004   |
| EU Directive 2002/96/EC (WEEE):       | Yes  |
| EU Directive 2003/11/EC (BFR):        | Yes  |
| CA Prop 65 (CJ for Wire & Cable):     | Yes  |
| MII Order #39 (China RoHS):           | Yes  |
| RG Type:                              | Mini   |

#### Suitability

##### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

75

#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

17.3

#### Nominal Velocity of Propagation:

VP (%)

78

#### Nominal Delay:

Delay (ns/ft)

1.30

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

100.0

#### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

9.5

#### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

|      |      |
|------|------|
| 1    | 0.80 |
| 5    | 1.50 |
| 10   | 2.20 |
| 30   | 4.00 |
| 50   | 5.40 |
| 100  | 8.20 |
| 200  | 12.5 |
| 400  | 18.9 |
| 700  | 26.5 |
| 900  | 30.8 |
| 1000 | 32.8 |

## 1520A Coax - Bundled RGB Coaxial Cable Miniature Type

### Max. Operating Voltage - UL:

| Voltage                      |
|------------------------------|
| 30 V RMS (UL AWM Style 1354) |
| 300 V RMS (CL2)              |

### Minimum Return Loss:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------|-------------|-------------------|------------------|--------------|
|             |             | 10                | 40               | 25           |

### Sweep Test

**Sweep Testing:** 100% sweep tested. 10MHz to 40MHz.

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc                  |
|---------------|----------|-------------|-------|-------|----------------------------|
| 1520A 0101000 | 1,000 FT | 50.000 LB   | BLACK | C     | 3 #30 FHDPE BRD PVC FS PVC |
| 1520A 010500  | 500 FT   | 23.000 LB   | BLACK | C     | 3 #30 FHDPE BRD PVC FS PVC |

#### Notes:

C = CRATE REEL PUT-UP.

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