# Detailed Specifications & Technical Data

**ENGLISH MEASUREMENT VERSION**

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

For more Information please call

1-800-Belden1

## General 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 |

| | |
|---|---|
| **Total Number of Conductors:** | 3 |

### 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. |
| **Min. Bend Radius/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 Directive 2011/65/EU (ROHS II):** | Yes |

| | |
|---|---|
| **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 |

**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. |

## 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 | 25.000 LB | BLACK | C | 3 #30 FHDPE BRD PVC FS PVC |

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**Notes:**
C = CRATE REEL PUT-UP.

Revision Number: 3  Revision Date: 04-11-2008