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please call

1-800-Belden1



### General Description:

RG-11/U type, 14 AWG solid .064" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

### Usage (Overall)

Suitable Applications: SMPTE 2081-1 6 Gb/s UHDTV, SMPTE 424M 3 Gb/s HD-SDI 1080p

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 14  | Solid     | BC - Bare Copper   | .064       |

Total Number of Conductors: 1

#### Insulation

Insulation Material:

| Insulation Material                                 | Dia. (in.) |
|---|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | .280       |

#### Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material                      | Coverage (%) |
|---------|-------------------------|-------|--|--------------|
| 1       | Duofoil®                | Tape  | Aluminum Foil-Polyester Tape-Aluminum Foil | 100          |
| 2       |                         | Braid | TC - Tinned Copper                         | 95           |

#### Outer Jacket

Outer Jacket Material:

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

#### Overall Cable

Overall Nominal Diameter: 0.400 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

Bulk Cable Weight: 87 lbs/1000 ft.

Max. Recommended Pulling Tension: 145 lbs.

Min. Bend Radius/Minor Axis: 4 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

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

## 7731A Coax - Low Loss Serial Digital Coax

RG Type: 11/U

### Flame Test

UL Flame Test: UL1666 Vertical Shaft

CSA Flame Test: FT4

### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes - Black only.

Suitability - Aerial: Yes - Black only, when supported by messenger wire.

Suitability - Burial: No

### Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 7732A

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

75

#### Nom. Inductance:

Inductance (µH/ft)

0.097

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.0

#### Nominal Velocity of Propagation:

VP (%)

85

#### Nominal Delay:

Delay (ns/ft)

1.21

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.5

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.5

#### Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1.000       | 0.160                    |
| 3.580       | 0.290                    |
| 5.000       | 0.340                    |
| 7.000       | 0.390                    |
| 10.000      | 0.460                    |
| 67.500      | 1.050                    |
| 71.500      | 1.090                    |
| 88.500      | 1.210                    |
| 100.000     | 1.280                    |
| 135.000     | 1.470                    |
| 143.000     | 1.510                    |
| 180.000     | 1.690                    |
| 270.000     | 2.090                    |
| 360.000     | 2.450                    |
| 540.000     | 3.060                    |
| 720.000     | 3.580                    |
| 750.000     | 3.660                    |
| 800.000     | 3.790                    |
| 1000.000    | 4.300                    |
| 1500.000    | 5.500                    |
| 2000.000    | 6.400                    |
| 2250.000    | 6.900                    |
| 3000.000    | 8.200                    |
| 4500.000    | 10.400                   |
| 6000.000    | 11.000                   |

## 7731A Coax - Low Loss Serial Digital Coax

**Max. Operating Voltage - UL:**

|                |
|----------------|
| <b>Voltage</b> |
| 300 V RMS      |

**Other Electrical Characteristic 1:** TDR Impedance: 75 +/- 3 Ohms

**Other Electrical Characteristic 2:** Return Loss: Fixed bridge and termination.

**Minimum Return Loss:**

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
| 5.000             | 1600.000         | 23.000       |
| 1600.000          | 4500.000         | 21.000       |
| 4500.000          | 6000.000         | 15.000       |

**Sweep Test**

**Sweep Testing:** 100#37; Sweep tested 5 MHz to 6 GHz.

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color       | Notes | Item Desc                  |
|---------------|----------|-------------|-------------|-------|----------------------------|
| 7731A N3U1000 | 1,000 FT | 92.000 LB   | GREEN, MIL  | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A N3U4000 | 4,000 FT | 376.000 LB  | GREEN, MIL  | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0011000 | 1,000 FT | 92.000 LB   | BROWN       |       | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0014000 | 4,000 FT | 376.000 LB  | BROWN       | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0021000 | 1,000 FT | 92.000 LB   | RED         | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0024000 | 4,000 FT | 376.000 LB  | RED         | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0031000 | 1,000 FT | 92.000 LB   | ORANGE      |       | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0034000 | 4,000 FT | 376.000 LB  | ORANGE      | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0041000 | 1,000 FT | 92.000 LB   | YELLOW      |       | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0044000 | 4,000 FT | 376.000 LB  | YELLOW      | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0061000 | 1,000 FT | 92.000 LB   | BLUE, LIGHT |       | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0064000 | 4,000 FT | 376.000 LB  | BLUE, LIGHT | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0071000 | 1,000 FT | 92.000 LB   | VIOLET      | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0074000 | 4,000 FT | 376.000 LB  | VIOLET      | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0081000 | 1,000 FT | 92.000 LB   | GRAY        |       | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0084000 | 4,000 FT | 376.000 LB  | GRAY        | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0091000 | 1,000 FT | 92.000 LB   | WHITE       |       | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0094000 | 4,000 FT | 376.000 LB  | WHITE       | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0101000 | 1,000 FT | 92.000 LB   | BLACK       | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 0104000 | 4,000 FT | 376.000 LB  | BLACK       | C     | #14 PE/GIFHDLDPPE SH FRPVC |
| 7731A 010500  | 500 FT   | 46.500 LB   | BLACK       | C     | #14 PE/GIFHDLDPPE SH FRPVC |

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 8    Revision Date: 04-01-2016

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