

## 7732A Coax - Low Loss Serial Digital Coax



For more Information  
please call

1-800-Belden1



### Description:

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

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

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

#### Insulation

##### Insulation Material:

| Insulation Trade Name | Insulation Material                        | Dia. (in.) |
|-----------------------|--|------------|
| Teflon®               | FFEP - Foam Fluorinated Ethylene Propylene | .274       |

#### 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  |
|------------------------|
| PVDF - Fluorocopolymer |

#### Overall Cable

Overall Nominal Diameter: 0.348 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +125°C

UL Temperature Rating: 150°C

Bulk Cable Weight: 83 lbs/1000 ft.

Max. Recommended Pulling Tension: 97 lbs.

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

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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): 04/01/2005

EU Directive 2002/96/EC (WEEE): Yes

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EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

RG Type: 11/U

### Flame Test

UL Flame Test: NFPA 262

### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Aerial: Yes - When supported by a messenger wire

Suitability - Burial: Yes

### Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 7731A

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### Nom. Inductance:

Inductance (µH/ft)

0.091

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.3

### Nominal Velocity of Propagation:

VP (%)

83

### Nominal Delay:

Delay (ns/ft)

1.22

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.5

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.6

### Nom. Attenuation:

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

|      |      |
|------|------|
| 1    | 0.15 |
| 3.58 | 0.26 |
| 5    | 0.30 |
| 7    | 0.34 |
| 10   | 0.40 |
| 67.5 | 1.20 |
| 71.5 | 1.24 |
| 88.5 | 1.40 |
| 100  | 1.50 |
| 135  | 1.78 |
| 143  | 1.84 |
| 180  | 2.09 |
| 270  | 2.60 |

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|      |      |
|------|------|
| 360  | 3.10 |
| 540  | 3.89 |
| 720  | 4.57 |
| 750  | 4.68 |
| 1000 | 5.50 |
| 1500 | 6.91 |
| 2000 | 8.13 |
| 2500 | 9.20 |
| 3000 | 10.2 |

### Max. Operating Voltage - UL:

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

**Other Electrical Characteristic 1:** Impedance tested in accordance with ASTM D-4566 paragraph 48.2, option 2 using a 75 Ohm fixed bridge and termination.

**Other Electrical Characteristic 2:** Return Loss tested in accordance with ASTM D-4566 paragraph 50.3, using a 75 Ohm fixed bridge and termination.

### Minimum Structural Return Loss:

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

### Sweep Test

**Sweep Testing:** 100% Sweep tested 5 MHz to 4.5 GHz.

### Misc. Information (Overall)

### Notes (Overall)

**Notes:** Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color       | Notes | Item Desc        |
|---------------|----------|-------------|-------------|-------|------------------|
| 7732A 0041000 | 1,000 FT | 90.000 LB   | YELLOW      | C     | #14 FFEP SH PVDF |
| 7732A 0061000 | 1,000 FT | 90.000 LB   | BLUE, LIGHT | C     | #14 FFEP SH PVDF |
| 7732A 0101000 | 1,000 FT | 90.000 LB   | BLACK       | C     | #14 FFEP SH PVDF |
| 7732A 010500  | 500 FT   | 45.000 LB   | BLACK       | C     | #14 FFEP SH PVDF |
| 7732A 8771000 | 1,000 FT | 90.000 LB   | NATURAL     | C     | #14 FFEP SH PVDF |
| 7732A 877500  | 500 FT   | 45.000 LB   | NATURAL     | C     | #14 FFEP SH PVDF |

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

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