# Detailed Specifications & Technical Data

**ENGLISH MEASUREMENT VERSION**

## 7732A Coax - Low Loss Serial Digital Coax

For more Information please call

1-800-Belden1

## General 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 |

| | |
|---|---|
| **Total Number of Conductors:** | 1 |

### 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:** | 145 lbs. |
| **Min. Bend Radius/Minor Axis:** | 3.500 in. |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

| | |
|---|---|
| **NEC/(UL) Specification:** | CMP |
| **CEC/C(UL) Specification:** | CMP |
| **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):** | 04/01/2005 |
| **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:** | 11/U |

### Flame Test

| | |
|---|---|
| **UL Flame Test:** | NFPA 262 |
| **CSA Flame Test:** | FT6 |

### Suitability

| | |
|---|---|
| **Suitability - Indoor:** | Yes |
| **Suitability - Outdoor:** | 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.) |
|---|---|
| 1.000 | 0.150 |
| 3.580 | 0.260 |
| 5.000 | 0.300 |
| 7.000 | 0.340 |
| 10.000 | 0.400 |
| 67.500 | 1.200 |
| 71.500 | 1.240 |
| 88.500 | 1.400 |
| 100.000 | 1.500 |
| 135.000 | 1.780 |
| 143.000 | 1.840 |
| 180.000 | 2.090 |
| 270.000 | 2.600 |
| 360.000 | 3.100 |
| 540.000 | 3.890 |
| 720.000 | 4.570 |
| 750.000 | 4.680 |
| 1000.000 | 5.500 |
| 1500.000 | 6.910 |
| 2000.000 | 8.130 |
| 2500.000 | 9.200 |
| 3000.000 | 10.200 |
| 4500.000 | 15.400 |

**Max. Operating Voltage - UL:**

| Voltage |
|---|
| 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.

## 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 0101200 | 1,200 FT | 106.800 LB | BLACK | | #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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