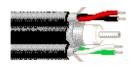


# 7721A Composite - Broadband Coax Headend/Video Cable





For more Information please call

1-800-Belden1

## **Description:**

Coax-20 AWG, solid silver-plated conductor, gas injected foam polyethylene insulation Dubond® plus tinned copper braid shield; pairs-2,22 AWG stranded tinned copper conductors, twisted pairs, individually Beldfoil® shielded, polyolefin insulation, PVC jacket.

#### Coax

### **Physical Characteristics**

#### Conductor

AWG:

# Co	oax AWG	Stranding	Conductor Material	Dia. (in.)
1	20	Solid	SPC - Silver Plated Copper	0.032

#### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	0.145

#### **Inner Shield**

Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	% Coverage (%)
Duobond® II Tape		Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
Braid		TC - Tinned Copper	95

## **Applicable Specifications and Agency Compliance**

**Applicable Standards & Environmental Programs** 

RG Type: Series 59

## **Electrical Characteristics**

Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance
75	3

Nom. Inductance:



Nom. Capacitance Conductor to Shield:

Capacitance	(pF/ft)
16.200	

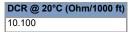
**Nominal Velocity of Propagation:** 



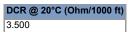
**Nominal Delay:** 



Nom. Conductor DC Resistance:



Nom. Inner Shield DC Resistance:



**Minimum Structural Return Loss:** 

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5.000	1000.000	20.000



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#### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.290
3.580	0.550
5.000	0.650
10.000	0.870
55.000	1.830
211.000	3.610
270.000	4.100
300.000	4.330
330.000	4.690
400.000	5.020
450.000	5.330
550.000	5.900
750.000	6.970
870.000	7.520
1000.000	8.090

# **Twisted Pair**

## **Physical Characteristics**

#### Conductor

AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>	Dia. (in.)
2	22	7x30	TC - Tinned Copper	0.030

#### Insulation

**Insulation Material:** 



#### **Inner Shield**

Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)	Description
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100	Each Pair

## Inner Shield Drain Wire AWG:

AWG	Stranding	<b>Conductor Material</b>
22	7x30	TC - Tinned Copper

#### **Inner Shield Color Code Chart:**

Number	Color
1	Black and Red
2	Green and White

# **Overall Cabling**

Overall Cabling Lay Length & Direction:

Length (in.)	Twists (ft.)
1.750	6.86

#### **Overall Diameter**

Overall Nominal Diameter: 0.138 in.

# **Multi Conductor**

# **Physical Characteristics**

Conductor AWG:

**Dia. (in.)** 0.016

### **Electrical Characteristics**

Nom. Characteristic Impedance:

Impedance (Ohm)



# **Detailed Specifications & Technical Data**





## 7721A Composite - Broadband Coax Headend/Video Cable

45

Nom. Inductance:

Inductance (µH/ft) 0.170

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft) 34.000

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft) 67.000

**Nominal Velocity of Propagation:** 

**VP (%)** 66.000

Max. Operating Voltage - UL:

Voltage 300 V RMS

## **Physical Characteristics (Overall)**

Conductor

**Outer Jacket** 

**Outer Jacket Material:** 

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cabling** 

Overall Nominal Diameter: 0.235 x 0.551 in.

**Mechanical Characteristics (Overall)** 

Operating Temperature Range: 0°C To +80°C

Other Temperature Range: 80°C

Bulk Cable Weight: 57.000 lbs/1000 ft.

Max. Recommended Pulling Tension: 125.000 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.500 in.

### **Applicable Specifications and Agency Compliance (Overall)**

**Applicable Standards & Environmental Programs** 

 NEC/(UL) Specification:
 CATV,CM

 CEC/C(UL) Specification:
 CM

Flame Test

UL Flame Test: UL1685 UL Loading

**Notes (Overall)** 

Notes: Sweep tested 5 MHz to 1 GHz.

## **Put Ups and Colors:**

Item # Putup Ship Weight Color Notes Item Desc

Revision Number: 0 Revision Date: 04-11-2008

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# **Detailed Specifications & Technical Data**





# 7721A Composite - Broadband Coax Headend/Video Cable

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