

## 7999A Coax - Broadband Coax

For more Information  
please call

1-800-Belden1



### Description:

14 AWG solid .064" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® IV quad shield (60% and 40% coverage), PVC jacket

### Usage (Overall)

**Suitable Applications:** Direct Broadcast Satellite, DBS, TV, CATV, Off-Air Television, TV Antenna

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	14	Solid	BCCS - Bare Copper Covered Steel	.064

#### Insulation

**Insulation Material:**

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	.280

#### Outer Shield

**Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100.000
2		Braid	AL - Aluminum	60.000
3	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100.000
4		Braid	AL - Aluminum	40.000

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

**Overall Nominal Diameter:** 0.407 in.

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -40°C To +80°C

**Bulk Cable Weight:** 59 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 308 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 4.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**NEC/(UL) Specification:** CATV, CM

**CEC/C(UL) Specification:** CM

**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):	11/14/2006
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
Series Type:	Series 11

### Flame Test

UL Flame Test:	UL1685 UL Loading
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### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	7999AP

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

### Nom. Inductance:

Inductance (µH/ft)
0.097

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.2

### Nominal Velocity of Propagation:

VP (%)
83

### Nominal Delay:

Delay (ns/ft)
1.2

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
11.0

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3

### Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
5	.38
55	.97
211	1.81
270	2.05
300	2.15
350	2.32
400	2.47
450	2.65
550	2.94
750	3.50
870	3.84
1000	4.23
1450	5.2
1800	5.8
2250	6.6

3000	7.7
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**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**Max. Operating Voltage - Non-UL:**

<b>Voltage</b>
300 V RMS

**Minimum Structural Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5	1000	20
1000	2250	15
2250	3000	10

**Sweep Test**

**Sweep Testing:** 5 MHz - 3 GHz

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7999A 0101000	1,000 FT	67.000 LB	BLACK		#14 GIFHDLDPPE DBSH PVC

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