



**Part Number: 7999A**

CATV Video, RG11, #14 BCCS, Quad Shield (Foil + 60% Braid + Foil + 40% Braid), CM

## Product 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

## Technical Specifications

### Product Overview

Environmental Space:	Indoor (Not Riser or Plenum)
Suitable Applications:	Direct Broadcast Satellite, DBS, TV, CATV, Off-Air Television, TV Antenna

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
14	Solid	BCCS - Bare Copper Covered Steel	0.064 in	1

Conductor Count:	1
Conductor Size:	14 AWG

#### Insulation

Material	Nominal Diameter
Gas-injected FPE - Foam Polyethylene	0.28 in

#### Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Bonded Duofoil® (Bonded to Dielectric)	100 %
Braid	2	AL - Aluminum		60 %
Tape	3	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	4	AL - Aluminum		40 %

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.407 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
11 Ohm/1000ft	3 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
16.3 pF/ft

Shielding:	Multiple or Specialty
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#### Inductance

Nominal Inductance
0.097 µH/ft

#### Impedance

**Nominal Characteristic Impedance**

75 Ohm

**Return Loss (RL)**

Frequency [MHz]	Min. Structural Return Loss (SRL)
5 - 1000 MHz	20 dB
1000 - 2250 MHz	15 dB
2250 - 3000 MHz	10 dB

**Delay**

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.22 ns/ft	83 %

**High Freq**

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	0.38 dB/100ft
55 MHz	0.96 dB/100ft
211 MHz	1.90 dB/100ft
250 MHz	2.05 dB/100ft
270 MHz	2.13 dB/100ft
300 MHz	2.25 dB/100ft
330 MHz	2.35 dB/100ft
350 MHz	2.42 dB/100ft
400 MHz	2.60 dB/100ft
450 MHz	2.75 dB/100ft
500 MHz	2.90 dB/100ft
550 MHz	3.04 dB/100ft
600 MHz	3.18 dB/100ft
750 MHz	3.65 dB/100ft
870 MHz	4.06 dB/100ft
1000 MHz	4.35 dB/100ft
1450 MHz	5.2 dB/100ft
1800 MHz	5.8 dB/100ft
2250 MHz	6.6 dB/100ft
3000 MHz	7.7 dB/100ft

**Voltage**

Non-UL Voltage Rating	UL Voltage Rating
300 V RMS	300 V RMS

**Temperature Range**

Operating Temp Range:	-40°C To +80°C
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**Mechanical Characteristics**

UV Resistance:	Yes - Black only
Bulk Cable Weight:	61 lbs/1000ft
Max Recommended Pulling Tension:	308 lbs
Min Bend Radius/Minor Axis:	4.25 in

**Standards**

NEC/(UL) Specification:	CATV, CM
CEC/C(UL) Specification:	CM
RG Type:	11/U Type
Series Type:	Series 11
RG / Series Type:	Series 11

**Applicable Environmental and Other Programs**

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes

EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2006-11-14
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

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

## Part Number

### Variants

Item #	Color
7999A 0101000	Black

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