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# 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 C	overed Steel	0.064 in	1
Condu	ctor Count:		1		
Condu	ctor 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



#### Inductance



### 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

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

# **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, LS0H, Toxicity Testing

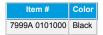
UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

#### Plenum/Non-Plenum

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

#### **Part Number**

#### Variants



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