



Product: [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

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

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.28 in

Insulation, Table Note:	Gas Injected
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Outer Shield Material

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

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

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
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
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

Item #	Color	Putup Type	Length	UPC
7999A 0101000	Black	Reel	1,000 ft	612825192619

History

Update and Revision:	Revision Number: 0.310 Revision Date: 04-28-2020
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