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Part Number: 1617AP

CATV Video, RG11, 14 AWG BCCS, Quad Shield, CMP



Product Description

Series 11, 14 AWG solid .064" bare copper-covered steel conductor, foam FEP insulation, Duobond® IV, aluminum braid shield (Foil + 60% Braid + Foil + 40% Braid), Solef PVDF fluorocopolymer jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor - 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
FFEP - Foam Fluorinated Ethylene Propylene	0.274 in

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter
PVDF - Fluorocopolymer	0.372 in

Electrical Characteristics

Conductor DCR

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

Capacitance

Nom. Capacitance Conductor to Shield	
16.3 pF/ft	
Shielding:	Multiple or Specialty

Inductance

Nominal Inductance
0.106 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

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.2 dB/100ft
10 MHz	0.5 dB/100ft
50 MHz	0.9 dB/100ft
100 MHz	1.3 dB/100ft
200 MHz	1.9 dB/100ft
400 MHz	2.8 dB/100ft
700 MHz	3.9 dB/100ft
900 MHz	4.7 dB/100ft
1000 MHz	5 dB/100ft
1450 MHz	6.7 dB/100ft
1800 MHz	7.7 dB/100ft
2250 MHz	8.5 dB/100ft

Delay

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

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	0.38 dB/100ft
55 MHz	1.12 dB/100ft
211 MHz	2.24 dB/100ft
270 MHz	2.59 dB/100ft
300 MHz	2.75 dB/100ft
350 MHz	3.08 dB/100ft
400 MHz	3.34 dB/100ft
450 MHz	3.64 dB/100ft
550 MHz	4.19 dB/100ft
700 MHz	5.03 dB/100ft
800 MHz	5.51 dB/100ft
870 MHz	5.86 dB/100ft
1000 MHz	6.53 dB/100ft
1450 MHz	8.50 dB/100ft
1800 MHz	10.0 dB/100ft
2250 MHz	11.8 dB/100ft

Voltage

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

Temperature Range

Non-UL Temp Rating:	150°C
Operating Temp Range:	-20°C To +150°C

Mechanical Characteristics

Bulk Cable Weight:	62 lbs/1000ft
Max Recommended Pulling Tension:	260 lbs
Min Bend Radius/Minor Axis:	3.75 in

Standards

NEC/(UL) Specification:	CATVP, CMP
CEC/C(UL) Specification:	CMP

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):	2005-07-16
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LSOH, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Non-Plenum Number:	7999A
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Variants

Item #	Color
1617AP 0101000	
1617AP 0101000	Black

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