



Product: [1613A](#)

CATV Video, RG6, 18 AWG BCCS, Tri Shield, CM PVC Jacket



Product Description

CATV, Series 6, 18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® III, aluminum braid shield (77% coverage), CM PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BCCS - Bare Copper Covered Steel	0.04 in	1

Conductor Count:	1
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Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.18 in

Table Notes:	Gas Injected
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Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Aluminum		77%
Tape	3	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.275 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
28 Ohm/1000ft	5.6 Ohm/1000ft	5.6 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.2 pF/ft

Inductance

Nominal Inductance
0.097 μ H/ft

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	\pm 3 Ohm

Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5 - 1002 MHz	20 dB
1002 - 2250 MHz	15 dB
2250 - 3000 MHz	10 dB

Delay

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

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	0.58 dB/100ft
55 MHz	1.60 dB/100ft
211 MHz	3.05 dB/100ft
270 MHz	3.37 dB/100ft
300 MHz	3.55 dB/100ft
350 MHz	3.85 dB/100ft
400 MHz	4.15 dB/100ft
450 MHz	4.40 dB/100ft
550 MHz	4.90 dB/100ft
750 MHz	5.65 dB/100ft
870 MHz	6.11 dB/100ft
1000 MHz	6.55 dB/100ft
1450 MHz	8 dB/100ft
1800 MHz	8.80 dB/100ft
2250 MHz	10.0 dB/100ft
3000 MHz	11.9 dB/100ft

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	80°C
Operating Temperature Range:	-40°C To +80°C

Mechanical Characteristics

UV Resistance:	Yes - Black only
Bulk Cable Weight:	28 lbs/1000ft
Max. Pull Tension:	138 lbs
Min. Bend Radius/Minor Axis:	3 in

Standards

NEC/(UL) Compliance:	CATV, CM
CEC/C(UL) Compliance:	CM
CPR Euroclass:	Eca
RG Type:	6
Series Type:	6

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum), Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

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
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
1613A 0101000	Black	Reel	1,000 ft	612825119098
1613A 010A1000	Black	Reel-in-Box	1,000 ft	612825119074
1613A 010U1000	Black	UnReel	1,000 ft	612825119081
1613A 0091000	White	Reel	1,000 ft	612825119067
1613A 009A1000	White	Reel-in-Box	1,000 ft	612825119043
1613A 009U1000	White	UnReel	1,000 ft	612825119050
1613A Q5HU1000	White, Neutral	UnReel	1,000 ft	612825119036

History

Update and Revision:	Revision Number: 0.461 Revision Date: 04-14-2023
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