



Product: [5399B5](#)

Surveillance CATV MATV, RG-6 #18 BC, Duobond+60% AL Braid, CM

Product Description

Surveillance, CATV & MATV Cable, RG6, Rated-CM & CL2, 18 AWG solid bare copper, foam polyolefin core, Duobond® + 60% aluminum braid, PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	CATV, MATV, Schlage Systems
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BC - Bare Copper	0.040 in	1

Conductor Count:	1
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Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.180 in

Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Aluminum		60%

Table Notes:	Tape is bonded to dielectric
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Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.270 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
6.5 Ohm/1000ft	6.5 Ohm/1000ft	9 Ohm/1000ft	9.0 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)
5-50 MHz	23 dB

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
83 ns/100m	1.22 ns/ft	83%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
4 MHz	0.6 dB/100ft
30 MHz	1.33 dB/100ft
211 MHz	3.08 dB/100ft
270 MHz	3.5 dB/100ft
300 MHz	3.7 dB/100ft
330 MHz	3.89 dB/100ft
400 MHz	4.3 dB/100ft
450 MHz	4.58 dB/100ft
550 MHz	5.09 dB/100ft
750 MHz	6 dB/100ft
870 MHz	6.5 dB/100ft
1000 MHz	7 dB/100ft

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	75°C
Operating Temperature Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	27 lbs/1000ft
Max. Pull Tension:	50 lbs
Min. Bend Radius/Minor Axis:	2.7 in

Standards

NEC/(UL) Compliance:	CL2, CM
CEC/C(UL) Compliance:	CM
RG Type:	6

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/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:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	350 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
5399B5 010U1000	Black	UnReel	1,000 ft	612825161837

Product Notes

Notes:	Print legend includes sequential footage marks.
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History

Update and Revision:	Revision Number: 0.371 Revision Date: 04-29-2024
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