



Product: 9117M ☑

CATV Video, RG6, 18 AWG BCCS, Messenger

Product Description

Series 6, 18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II, aluminum braid shield (60% coverage), 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

Insulation

Material	Nominal	Diameter
PE - Polyethylene (Foam)	0.18 in	
Table Notes:		Gas Injec

Outer Shield

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

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.27 x 0.41 in

Construction and Dimensions

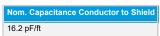
OuterJacket1, Messenger Diameter:	0.051 in
OuterJacket1, Messenger Material:	Galvanized Steel

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
28 Ohm/1000ft	9 Ohm/1000ft	9 Ohm/1000ft

Capacitance



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

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

Voltage

Non-UL Voltage Rating 350 V RMS

Temperature Range

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Mechanical Characteristics

Bulk Cable Weight:	42 lbs/1000ft
Max. Pull Tension:	110 lbs
Min. Bend Radius/Minor Axis:	2.75 in

Standards

RG Type:	6
Series Type:	6

Applicable Environmental and Other Programs

Environmental Space:	Outdoor - Aerial
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 Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No	

Related Part Numbers

Item #	Color	Put-Up Type	Length	UPC
9117M 0101000	Black	Reel	1,000 ft	612825224594

History

Update and Revision: Revision Number: 0.381 Revision Date: 11-09-2022

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