

Part Number: 9116

CATV Video, RG6, #18 BCCS, Foil + 60% Braid, CM

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

Construction and Dimensions

Conductor:

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

Insulation:

Material	Nominal Diameter
Gas-injected FPE - Foam Polyethylene	0.18 in

Outershield 1:

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

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.27 in

Electrical Characteristics

Conductor DCR:

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

Capacitance:

Nom. Capacitance Conductor to Shield	
16.2 pF/ft	

Sweep Testing:	5 MHz - 1 GHz
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Impedance:

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	± 3 Ohm

Delay:

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

High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. SRL (Structural Return Loss)
5 MHz	0.67 dB/100ft	20 dB
55 MHz	1.6 dB/100ft	
211 MHz	2.87 dB/100ft	
270 MHz	3.24 dB/100ft	
300 MHz	3.43 dB/100ft	
350 MHz	3.72 dB/100ft	
400 MHz	4 dB/100ft	
450 MHz	4.26 dB/100ft	
550 MHz	4.71 dB/100ft	
750 MHz	5.59 dB/100ft	
870 MHz	6 dB/100ft	
1000 MHz	6.54 dB/100ft	

Inductance:

Nominal Inductance
0.097 µH/ft

Voltage:

UL Voltage Rating
350V RMS V

Use

Max Recommended Pulling Tension:	126 lbs
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Safety

UL Flammability:	UL1581 Vertical Flame and FT-1 Flame Test
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Temperature Range

Operating Temp Range:	-40°C To +80°C °C
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Mechanical Characteristics

Min Bend Radius/Minor Axis:	2.75 in
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Part Number

Plenum (Y/N):	No
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Plenum Number:	9116P
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Standards

CA Prop 65 (CJ for Wire & Cable):	Yes
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CEC/C(UL) Specification:	CM
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MII Order #39 (China RoHS):	Yes
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NEC/(UL) Specification:	CATV, CM
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Series Type:	Series 6
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EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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EU CE Mark:	Yes
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Product Variants

Part Number	Color	Put-Up Type	Length
9116	WHITE	Reel	1000 ft
9116	WHITE	Reel	305 m
9116 0091000	WHITE	Reel	1000 ft
9116	WHITE	Reel	500 ft
9116	WHITE	Reel	152 m
9116 009500	WHITE	Reel	500 ft
9116			
9116			
9116	WHITE	Reel	305 m
9116	WHITE	UnReel	1000 ft
9116	WHITE	UnReel	305 m
9116 009U1000	WHITE	UnReel	1000 ft

9116	BLACK	Reel	1000 ft
9116	BLACK	Reel	305 m
9116 0101000	BLACK	Reel	1000 ft
9116	BLACK	Reel	500 ft
9116	BLACK	Reel	152 m
9116 010500	BLACK	Reel	500 ft
9116			
9116			
9116	BLACK	Reel	305 m
9116	BLACK	Reel	700 ft
9116	BLACK	Reel	213 m
9116 010S700	BLACK	Reel	700 ft
9116	BLACK	UnReel	1000 ft
9116	BLACK	UnReel	305 m
9116 010U1000	BLACK	UnReel	1000 ft
9116	BLACK	UnReel	305 m
9116	BLACK	UnReel	500 ft
9116	BLACK	UnReel	152 m
9116 010U500	BLACK	UnReel	500 ft
9116	BEIGE, LIGHT	UnReel	1000 ft
9116 290U1000	BEIGE, LIGHT	UnReel	1000 ft
9116	WHITE, NEUTRAL	Reel	1000 ft
9116 Q5H1000	WHITE, NEUTRAL	Reel	1000 ft
9116	WHITE, NEUTRAL	UnReel	1000 ft
9116	NEUTRAL WHITE	UnReel	305 m
9116 Q5HU1000	WHITE, NEUTRAL	UnReel	1000 ft
9116-0101000	BLACK	Reel	305 m
9116	BLACK	Reel	305 m
9116			

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