



Part Number: 9116P

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

Product Description

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

Technical Specifications

Product Overview

Environmental Space:	Indoor - Plenum
Suitable Applications:	CATV, Broadband

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
AWG Size:	18

Insulation

Material	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	0.17 in

Outer Shield Material

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

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.235 in

Electrical Characteristics

Conductor DCR

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

Capacitance

Nom. Capacitance Conductor to Shield
16.3 pF/ft

Inductance

Nominal Inductance
0.09 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5 - 1000 MHz	20 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.4 dB/100ft
10 MHz	0.7 dB/100ft
50 MHz	1.6 dB/100ft
100 MHz	2.1 dB/100ft
200 MHz	3.0 dB/100ft
400 MHz	4.3 dB/100ft
700 MHz	6.0 dB/100ft
750 MHz	6.3 dB/100ft
900 MHz	7.0 dB/100ft
1000 MHz	7.5 dB/100ft

Delay

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

Voltage

UL Voltage Rating
300V RMS

Temperature Range

Operating Temp Range:	-20°C To +75°C
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Mechanical Characteristics

UV Resistance:	No
Bulk Cable Weight:	25 lbs/1000ft
Max Recommended Pulling Tension:	126 lbs
Min Bend Radius/Minor Axis:	2.25 in

Standards

NEC/(UL) Specification:	CATVP, CMP
CEC/C(UL) Specification:	CMP
RG Type:	RG-6/U Type
Series Type:	Series 6

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):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Sunlight Resistance:	No

Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6

Part Number

Plenum (Y/N):	Yes
Non-Plenum Number:	9116, 9116R

Variants

Item #	Color	Footnote
9116P 0101000	BLACK	C
9116P 010U1000	BLACK	
9116P 010U500	BLACK	
9116P 8771000	NATURAL	C
9116P 877U1000	NATURAL	

Footnote:	C - CRATE REEL PUT-UP.
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