

## 9116 Coax - CATV Cable

For more Information  
please call

1-800-Belden1

**General 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.

**Physical Characteristics (Overall)****Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BCCS - Bare Copper Covered Steel	.040

Total Number of Conductors: 1

**Insulation**

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	.180

**Outer Shield**

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	60

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 0.270 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -40°C To +80°C

Bulk Cable Weight: 27 lbs/1000 ft.

Max. Recommended Pulling Tension: 126 lbs.

Min. Bend Radius/Minor Axis: 2.750 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CATV, CM

CEC/C(UL) Specification: CM

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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Series Type:	Series 6
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**Flame Test**

UL Flame Test:	UL1581 Vertical Flame and FT-1 Flame Test
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
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Plenum Number:	9116P
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

**Nom. Inductance:**

Inductance (μH/ft)
.097

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)
16.2

**Nominal Velocity of Propagation:**

VP (%)
83

**Nominal Delay:**

Delay (ns/ft)
1.2

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
28

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
9

**Max. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
5	0.67
55	1.60
211	2.87
270	3.24
300	3.43
350	3.72
400	4.00
450	4.26
550	4.71
750	5.59
870	6.00
1000	6.54

**Max. Operating Voltage - UL:**

Voltage
350 V RMS

**Minimum Structural Return Loss:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
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		5	1000	20
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**Sweep Test****Sweep Testing:**

5 MHz - 1 GHz

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9116 Q5HU1000	1,000 FT	29.000 LB	WHITE, NEUTRAL		#18 GIFHDLDP SH PVC
9116 Q5H1000	1,000 FT	30.000 LB	WHITE, NEUTRAL		#18 GIFHDLDP SH PVC
9116 009U1000	1,000 FT	29.000 LB	WHITE		#18 GIFHDLDP SH PVC
9116 0091000	1,000 FT	30.000 LB	WHITE		#18 GIFHDLDP SH PVC
9116 009500	500 FT	15.500 LB	WHITE		#18 GIFHDLDP SH PVC
9116 010S700	700 FT	18.900 LB	BLACK		#18 GIFHDLDP SH PVC
9116 010U1000	1,000 FT	29.000 LB	BLACK		#18 GIFHDLDP SH PVC
9116 010U500	500 FT	15.000 LB	BLACK		#18 GIFHDLDP SH PVC
9116 0101000	1,000 FT	30.000 LB	BLACK	C	#18 GIFHDLDP SH PVC
9116 010500	500 FT	15.500 LB	BLACK		#18 GIFHDLDP SH PVC
9116 290U1000	1,000 FT	29.000 LB	BEIGE, LIGHT		#18 GIFHDLDP SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

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