


**Detailed Specifications & Technical Data**



**9116 Coax - Broadband Coax CATV Cable**

	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p>
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**Description:**

18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II and a 60% aluminum braid shield, PVC jacket.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Coax	1
Total Number of Conductors	1
Series Type	Series 6
AWG	18
Stranding	Solid
Conductor Diameter	.040 in.
Conductor Material	BCCS - Bare Copper Covered Steel

**INSULATION:**

Insulation Material	Gas-injected FPE - Foam Polyethylene
Insulation Diameter	.180 in.

**OUTER SHIELD:**

Outer Shield Material Trade Name	Duobond® II
Outer Shield Type	Tape/Braid

Outer Shield Material :

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

Outer Shield % Coverage	100 %
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**OUTER JACKET:**

Outer Jacket Material	PVC - Polyvinyl Chloride
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**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.270 in.
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**MECHANICAL CHARACTERISTICS:**

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Operating Temperature Range	-40°C To +80°C
Bulk Cable Weight	30 lbs/1000 ft.
Max. Recommended Pulling Tension	126 lbs.
Min. Bend Radius (Install)	3 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	CATV, CM
CEC/C(UL) Specification	CM

**FLAME TEST:**

UL Flame Test	UL1581 Vertical Tray
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**SWEEP TEST:**

Sweep Testing	5 MHz - 1 GHz
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**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
Plenum Number	9116P

**ELECTRICAL CHARACTERISTICS:**

Nom. Characteristic Impedance	75 +/-3 Ohms
Nom. Inductance	.097 µH/ft
Nom. Capacitance Conductor to Shield	16.2 pF/ft
Nominal Velocity of Propagation	83 %
Nominal Delay	1.2 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	28 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	9 Ohms/1000 ft

**Minimum Structural Return Loss :**

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Structural Return Loss (dB)
		5	1000	20

Max. Attenuation :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. 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 350 V RMS

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9116 0091000	#18 GIFHDLDPESH PVC	1000	32	WHITE	
9116 009500	#18 GIFHDLDPESH PVC	500	17.5	WHITE	
9116 009U1000	#18 GIFHDLDPESH PVC	U1000	31	WHITE	
9116 009U500	#18 GIFHDLDPESH PVC	U500	15.5	WHITE	
9116 0101000	#18 GIFHDLDPESH PVC	1000	32	BLACK	C
9116 010500	#18 GIFHDLDPESH PVC	500	17.5	BLACK	
9116 010S700	#18 GIFHDLDPESH PVC	S700	18.9	BLACK	
9116 010U1000	#18 GIFHDLDPESH PVC	U1000	31	BLACK	
9116 010U500	#18 GIFHDLDPESH PVC	U500	15.5	BLACK	
9116 290U1000	#18 GIFHDLDPESH PVC	U1000	31	BEIGE, LIGHT	
9116 Q5H1000	#18 GIFHDLDPESH PVC	1000	32	WHITE, NEUTRAL	
9116 Q5HU1000	#18 GIFHDLDPESH PVC	U1000	31	WHITE, NEUTRAL	

C = CRATE REEL PUT-UP.

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