

## 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
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes
Series Type:	Series 6

**Flame Test**

UL Flame Test: UL1581 Vertical Flame and FT-1 Flame Test

## Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 9116P

## 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
300 V RMS

## Minimum Structural Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5	1000	20

## 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 009I000	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 010I000	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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