

**9116****Coax - CATV Cable**

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.



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## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9116 Q5HU1000	305 MT	13.154 KG	WHITE, NEUTRAL		#18 GIFHDLDP E SH PVC
9116 Q5H1000	305 MT	13.608 KG	WHITE, NEUTRAL		#18 GIFHDLDP E SH PVC
9116 009U1000	305 MT	13.154 KG	WHITE		#18 GIFHDLDP E SH PVC
9116 0091000	305 MT	13.608 KG	WHITE		#18 GIFHDLDP E SH PVC
9116 009500	152 MT	7.258 KG	WHITE		#18 GIFHDLDP E SH PVC
9116 010S700	213 MT	8.255 KG	BLACK		#18 GIFHDLDP E SH PVC
9116 010U1000	305 MT	13.154 KG	BLACK		#18 GIFHDLDP E SH PVC
9116 010U500	152 MT	6.804 KG	BLACK		#18 GIFHDLDP E SH PVC
9116 0101000	305 MT	13.608 KG	BLACK	C	#18 GIFHDLDP E SH PVC
9116 010500	152 MT	7.258 KG	BLACK		#18 GIFHDLDP E SH PVC
9116 290U1000	305 MT	13.154 KG	BEIGE, LIGHT		#18 GIFHDLDP E SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

## Physical Characteristics (Overall)

### Conductor

**AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	Solid	BCCS - Bare Copper Covered Steel	1.016

### Insulation

**Insulation Material:**

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	4.572

### 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 Cabling

Overall Nominal Diameter: 6.858 mm

## Mechanical Characteristics (Overall)

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

Installation Temperature Range: -30°C To +80°C

Bulk Cable Weight: 44.646 Kg/Km

Max. Recommended Pulling Tension: 560.473 N

Min. Bend Radius (Install)/Minor Axis: 50.800 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards

NEC/(UL) Specification: CATV, CM

CEC/C(UL) Specification: CM

EU CE Mark (Y/N): Yes

EU RoHS Compliant (Y/N): Yes

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

Series Type: Series 6

### Flame Test

UL Flame Test: UL1685 UL Loading

### Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 9116P

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
75.000	± 3

### Nom. Inductance:

Inductance (µH/m)
0.318257

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.1522

### Nominal Velocity of Propagation:

VP (%)
83

### Nominal Delay:

**Delay (ns/m)**

3.9372

**Nom. Conductor DC Resistance:****DCR @ 20°C (Ohm/km)**

91.868

**Nominal Outer Shield DC Resistance:****DCR @ 20°C (Ohm/km)**

29.529

**Max. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
5	2.19827
55	5.2496
211	9.41647
270	10.6304
300	11.2538
350	12.2053
400	13.124
450	13.9771
550	15.4535
750	18.3408
870	19.686
1000	21.4577

**Max. Operating Voltage - UL:****Voltage**

350 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