

**1841AC Coax - DBS Video Cable**



**Description:**

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

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Coax	2
Total Number of Conductors	2
Series Type	Series 6
AWG	18
Stranding	Solid
Conductor Diameter	.040 in.
Conductor Material	BC - Bare Copper
Corrosion Resistance	Y

**INSULATION:**

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

**OUTER SHIELD:**

Outer Shield 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	.273 x .595 in.
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**MECHANICAL CHARACTERISTICS:**

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Operating Temperature Range	-40°C To +80°C
Temperature Rating	80°C
Bulk Cable Weight	58 lbs/1000 ft.
Max. Recommended Pulling Tension	252 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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**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
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**ELECTRICAL CHARACTERISTICS:**

Nom. Characteristic Impedance	75 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	6.4 Ohms/1000 ft
Nominal Outer Shield DC Resistance	9 Ohms/1000 ft

**Minimum Structural Return Loss :**

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Structural Return Loss (dB)
		950	2250	15

**Nom. Attenuation :**

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	5			.5
	55			1.4
	211			2.6
	500			4.1
	750			5.1
	862			5.5
	1000			6.0
	1450			7.9
	1800			8.4
	2250			10.1
	3000			11.0

**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
	500			4.48
	750			5.59
	862			5.98
	1000			6.54
	1450			8.30
	1800			9.30
	2250			10.60
	3000			11.90

Max. Operating Voltage - UL 300 V RMS

**NOTES:**

Notes Sweep tested 950 MHz to 2.25 GHz.

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1841AC 008500	DUAL#18 LDPE/GIFHDLDPPE SHFRPVC	500	33.5	GRAY	C
1841AC 009500	DUAL#18 LDPE/GIFHDLDPPE SHFRPVC	500	33.5	WHITE	C
1841AC 010500	DUAL#18 LDPE/GIFHDLDPPE SHFRPVC	500	33.5	BLACK	C

C = CRATE REEL PUT-UP.

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