

1841AC Coax - Series 6



For more Information
please call

1-800-Belden1



Description

Series 6, 18 AWG solid .040" bare copper or bare copper-covered steel conductor (see below), gas-injected foam polyethylene insulation, Duobond® II + AL braid shield (60% coverage), PVC jacket (black, gray or white).

Physical Characteristics (Overall):

Conductor:

AWG

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
2	18	Solid	BCAC - Bare Copper w/Anti-Corrosion Treatment	0.040

Corrosion Resistance Yes

Insulation:

Insulation Material

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	0.180

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	100.000
2		Braid	AL - Aluminum	60.000

Outer Jacket:

Outer Jacket Material

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling:

Overall Nominal Diameter: 0.273 x 0.595 in.

Mechanical Characteristics (Overall):

Operating Temperature Range	-40°C To +80°C
Non-UL Temperature Rating	80°C
Bulk Cable Weight:	58 lbs/1000 ft.
Max. Recommended Pulling Tension:	252 lbs.
Min. Bend Radius (Install)/Minor Axis:	3 in.

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

Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

Nom. Inductance

Inductance (µH/ft)
0.097

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
16.200

Nominal Velocity of Propagation

VP (%)
83.000

Nominal Delay

Delay (ns/ft)
1.200

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
6.400

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
9.000

Nom. Attenuation

Freq. (MHz)	Attenuation (dB/100 ft.)
5.000	0.500
55.000	1.400
211.000	2.600
500.000	4.100
750.000	5.100
862.000	5.500
1000.000	6.000
1450.000	7.800
1800.000	8.600
2250.000	9.800
3000.000	11.300

Max. Attenuation

Freq. (MHz)	Attenuation (dB/100 ft.)
5.000	0.670
55.000	1.600
211.000	2.870
500.000	4.480
750.000	5.590
862.000	5.980
1000.000	6.540
1450.000	8.000
1800.000	8.800
2250.000	10.000
3000.000	11.900

Max. Operating Voltage - Non-UL

Voltage
300 V RMS

Minimum Structural Return Loss

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
950.000	2250.000	15.000
2250.000	3000.000	10.000

Sweep Test:

Sweep Testing 950 MHz - 3 GHz

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1841AC 008500	500 FT	32.500 LB	GRAY	C	DUAL#18 LDPE/GIFHDLDPPE SHFRPVCGRY
1841AC 009500	500 FT	32.500 LB	WHITE	C	DUAL#18 LDPE/GIFHDLDPPE SHFRPVCWHT
1841AC 010500	500 FT	32.500 LB	BLACK	C	DUAL#18 LDPE/GIFHDLDPPE SHFRPVCBLK

Notes:

C = CRATE REEL PUT-UP.

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