

1839AC Coax - Series 6

For more Information
please call

1-800-Belden1

**General Description:**

Series 6, 18 AWG solid .040" bare copper conductor, gas-injected foam polyethylene insulation, Duobond® II plus an aluminum braid shield (60% coverage), .045" bare copper-covered steel static ground, PVC jacket.

Physical Characteristics (Overall)**Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BCAC - Bare Copper w/Anti-Corrosion Treatment	0.040

Total Number of Conductors: 1

Corrosion Resistance: Yes

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	.180

Static Ground

Static Ground: BCCS - Bare Copper Covered Steel

Static Ground Diameter: 0.045 in.

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 x 0.405 in.

Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 42 lbs/1000 ft.

Max. Recommended Pulling Tension: 160 lbs.

Min. Bend Radius/Minor Axis: 3 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

EU Directive 2011/65/EU (RoHS II): Yes

EU CE Mark: No

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

MII Order #39 (China RoHS): Yes

Series Type: Series 6

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75.000

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)

6.4

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

9

Nom. Attenuation:

Freq. (MHz)	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	7.8
1800	8.6
2250	9.8
3000	11.3

Max. Attenuation:

Freq. (MHz)	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	8.00
1800	8.80
2250	10.0
3000	11.9

Max. Operating Voltage - Non-UL:

Voltage

300 V RMS

Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
950	2250	15
2250	3000	10

Sweep Test

Sweep Testing: 950 MHz - 3 GHz

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1839AC 0081000	1,000 FT	45.000 LB	GRAY	C	#18 PE/GIFPE SH PVC W/MSGR
1839AC 0101000	1,000 FT	45.000 LB	BLACK	C	#18 PE/GIFPE SH PVC W/MSGR

Notes:

C = CRATE REEL PUT-UP.

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