

**Part Number: 1839AC**

DBS Cable, RG6, 18 AWG BC, Foil + Braid, Messenger



## Product 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.

## Technical Specifications

### Product Overview

Environmental Space:	Indoor (Not Riser or Plenum)
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### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BCAC - Bare Copper w/Anti-Corrosion Treatment	0.04 in	1
Conductor, Table Note:		Corrosion Resistance		
Conductor Count:		1		
Conductor Size:		18 AWG		

#### Insulation

Material	Nominal Diameter
Gas-injected FPE - Foam Polyethylene	0.18 in

#### Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Bonded Duofoil®	100 %
Braid	2	AL - Aluminum		60 %

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.27 x 0.405 in

### Construction and Dimensions

Static Ground:	BCCS - Bare Copper Covered Steel
Static Ground Diameter:	0.045 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
6.4 Ohm/1000ft	9 Ohm/1000ft	9 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield	
16.2 pF/ft	
Shielding:	Multiple or Specialty

#### Inductance

Nominal Inductance
0.097 µH/ft

## Impedance

### Nominal Characteristic Impedance

75 Ohm

## Return Loss (RL)

### Frequency [MHz] | Min. Structural Return Loss (SRL)

950 - 2250 MHz 15 dB

2250 - 3000 MHz 10 dB

## High Frequency (Nominal/Typical)

### Frequency [MHz] | Nom. Insertion Loss

5 MHz 0.5 dB/100ft

55 MHz 1.4 dB/100ft

211 MHz 2.6 dB/100ft

500 MHz 4.1 dB/100ft

750 MHz 5.1 dB/100ft

862 MHz 5.5 dB/100ft

1000 MHz 6 dB/100ft

1450 MHz 7.8 dB/100ft

1800 MHz 8.6 dB/100ft

2250 MHz 9.8 dB/100ft

3000 MHz 11.3 dB/100ft

## Delay

### Nominal Delay | Nominal Velocity of Propagation (VP) [%]

1.2 ns/ft 83 %

## High Freq

### Frequency [MHz] | Max. Insertion Loss (Attenuation)

5 MHz 0.58 dB/100ft

55 MHz 1.6 dB/100ft

211 MHz 3.05 dB/100ft

500 MHz 4.66 dB/100ft

750 MHz 5.65 dB/100ft

862 MHz 6.1 dB/100ft

1000 MHz 6.55 dB/100ft

1450 MHz 8 dB/100ft

1800 MHz 8.8 dB/100ft

2250 MHz 10 dB/100ft

3000 MHz 11.9 dB/100ft

## Voltage

### Non-UL Voltage Rating

300 V RMS

## Temperature Range

Non-UL Temp Rating: 80°C

Operating Temp Range: -40°C To +80°C

## Mechanical Characteristics

Bulk Cable Weight: 42 lbs/1000ft

Max Recommended Pulling Tension: 160 lbs

Min Bend Radius/Minor Axis: 3 in

## Standards

RG Type: 6/U Type

Series Type: Series 6

RG / Series Type: Series 6

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	Footnote
1839AC 0101000	Black	C
1839AC 0081000	Gray	C

Footnote:	C - CRATE REEL PUT-UP.
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