



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
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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
Total Number of Conductors:	1

Insulation

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

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.27 x 0.405 in

Electrical Characteristics

Capacitance

Nom. Capacitance Conductor to Shield
16.2 pF/ft

Shielding:	Foil + Braid(s)
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Construction and Dimensions

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

Conductor DCR

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

Impedance

Nominal Characteristic Impedance
75 Ohm

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

Inductance

Nominal Inductance
0.097 µH/ft

Voltage

Non-UL Voltage Rating
300V RMS

Applicable Standards & Environmental 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

Standards

RG Type:	RG-6/U Type
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Series Type:	Series 6
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Suitability

Suitability - Indoor:	Yes
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Mechanical Characteristics

Operating Temp Range:	-40°C To +80°C
Bulk Cable Weight:	42(lbs/1000ft)
Max Recommended Pulling Tension:	160(lbs)
Min Bend Radius/Minor Axis:	3(in)

Temperature Range

Non-UL Temp Rating:	80°C
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Plenum/Non-Plenum

Plenum (Y/N):	No
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History

Variants

Item #	Color
1839AC 0101000	BLACK
1839AC 0081000	GRAY

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