

Product: [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

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BC - Bare Copper	0.04 in	1
Table Notes:			Corrosion Resistance	
Conductor Count:			1	

Insulation	
Material	Nominal Diameter
PE - Polyethylene (Foam)	0.18 in
Table Notes:	
Gas Injected	

Outer Shield Material				
Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly / Alum	Bonded Duofoil®	100%
Braid	2	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

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. Pull Tension:	160 lbs
Min Bend Radius/Minor Axis:	3 in

Standards

RG Type:	6/U Type
Series Type:	Series 6

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
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
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	Putup Type	Length	UPC
1839AC 0101000	Black	Reel	1,000 ft	612825124290
1839AC 0081000	Gray	Reel	1,000 ft	612825124283

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.295 Revision Date: 04-28-2020
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