



Product: [1829R](#)

DBS Cable, RG6, 18 AWG BCCS, Foil + Braid, CMR

Product Description

18 AWG solid bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II (100% coverage) and an aluminum braid shield (60% coverage), PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	Satellite, DBS, TV, Antenna
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BCCS - Bare Copper Covered Steel	0.04 in	1

Conductor Count:	1
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Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.18 in

Table Notes:	Gas Injected
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Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Aluminum		60%

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.275 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
28 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	Nominal Characteristic Tolerance
75 Ohm	± 3 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	Nom. Structural Return Loss (SRL)
5 MHz	0.5 dB/100ft	30 dB
55 MHz	1.4 dB/100ft	24 dB
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 Frequency

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

UL Voltage Rating
300 V RMS (CM)

Temperature Range

Installation Temp Range:	-30°C To +80°C
Operating Temp Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	29 lbs/1000ft
Max. Pull Tension:	126 lbs
Min. Bend Radius/Minor Axis:	2 in

Standards

NEC/(UL) Compliance:	CATVR, CMR
CEC/C(UL) Compliance:	CMG
RG Type:	6
Series Type:	6
Other Specification:	CEC/C(UL): CMG

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Riser
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes

EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LSOH, Toxicity Testing

CSA Flammability:	FT4
UL voltage rating:	300 V RMS (CM)

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Non-Plenum Number:	1829A
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Variants

Item #	Color	Put-Up Type	Length	UPC
1829R 010U1000	Black	UnReel	1,000 ft	612825124153
1829R 008U1000	Gray	UnReel	1,000 ft	612825124139
1829R 009U1000	White	UnReel	1,000 ft	612825124146

History

Update and Revision:	Revision Number: 0.390 Revision Date: 12-15-2021
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