



**Part Number:** 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

Environmental Space:	Indoor - Riser
Suitable Applications:	Satellite, DBS, TV, Antenna

### 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	
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	0.275 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	
Shielding:	Multiple or Specialty

#### 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 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**

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 Recommended Pulling Tension:	126 lbs
Min Bend Radius/Minor Axis:	2 in

**Standards**

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

**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:	Yes
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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### Flammability, LS0H, Toxicity Testing

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

### Plenum/Non-Plenum

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

Non-Plenum Number:	1829A
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### Variants

Item #	Color
1829R 010U1000	Black
1829R 008U1000	Gray
1829R 009U1000	White

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