



Part Number: 1829P

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

Product Description

18 AWG solid .040" bare copper-covered steel conductor, foam FEP insulation, Duobond® II (100% coverage) and an aluminum braid shield (60% coverage), Flamarrest® jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor - Plenum
Suitable Applications:	Dish, Satellite, KU Band

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
AWG Size:	18

Insulation

Material	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	0.17 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	Material Trade Name	Nominal Diameter
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.235 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
16.3 pF/ft

Inductance

Nominal Inductance
0.09 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5 - 2500 MHz	15 dB
2500 - 3000 MHz	10 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
10 MHz	0.66 dB/100ft
50 MHz	1.5 dB/100ft
100 MHz	2.1 dB/100ft
200 MHz	3 dB/100ft
400 MHz	4.4 dB/100ft
700 MHz	6.1 dB/100ft
900 MHz	7.2 dB/100ft
1000 MHz	7.6 dB/100ft
1450 MHz	9.6 dB/100ft
1800 MHz	11 dB/100ft
2250 MHz	12.7 dB/100ft
3000 MHz	15.1 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.24 ns/ft	83 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1000 MHz	9 dB/100ft

Voltage

UL Voltage Rating
300V RMS

Temperature Range

Operating Temp Range:	-20°C To +75°C
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Mechanical Characteristics

Bulk Cable Weight:	25 lbs/1000ft
Max Recommended Pulling Tension:	126 lbs
Min Bend Radius/Minor Axis:	3 in

Standards

NEC/(UL) Specification:	CATVP, CMP
CEC/C(UL) Specification:	CMP
RG Type:	RG-6/U Type
Series Type:	Series 6
Other Specification:	CEC/C(UL): CMP

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):	2005-05-10
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

UL Flammability:	NFPA 262
CSA Flammability:	FT6

Part Number

Plenum (Y/N):	Yes
Non-Plenum Number:	1829A

Variants

Item #	Color
1829P 010100	BLACK
1829P 010U1000	BLACK
1829P 010U250	BLACK
1829P 010U500	BLACK
1829P 877100	NATURAL
1829P 8771000	NATURAL
1829P 877U1000	NATURAL
1829P 877U250	NATURAL
1829P 877U500	NATURAL

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