




Product: [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

Suitable Applications:	Dish, Satellite, KU Band
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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
FEP - Fluorinated Ethylene Propylene (Foam)	0.17 in

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	Material Trade Name	Nominal Diameter
PVC-LS - Polyvinyl Chloride (Low Smoke)	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
300 V RMS

Temperature Range

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

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

Standards

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

Applicable Environmental and Other Programs

Environmental Space:	Indoor - 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:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-05-10
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
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Non-Plenum Number:	1829A
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Variants

Item #	Color	Putup Type	Length	UPC
1829P 010100	Black	Reel	100 ft	612825124078
1829P 010U250	Black	UnReel	250 ft	612825124054
1829P 010U500	Black	UnReel	500 ft	612825124061
1829P 010U1000	Black	UnReel	1,000 ft	612825124047
1829P 877100	Natural	Reel	100 ft	612825124115
1829P 877U250	Natural	UnReel	250 ft	612825124092
1829P 877U500	Natural	UnReel	500 ft	612825124108
1829P 8771000	Natural	Reel	1,000 ft	612825124122
1829P 877U1000	Natural	UnReel	1,000 ft	612825124085

History

Update and Revision:	Revision Number: 0.304 Revision Date: 04-28-2020
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