



**Product:** [1829P](#)

Broadband Coax, Series 6, 18 AWG Solid BCCS, Foil + 60% AL Braid, Flamarrest® Jkt, CMP

### Product Description

Broadband Coax, Series 6, 18 AWG Solid Bare Copper Covered Steel Conductor, FEP Insulation, Foil + 60% Aluminum Braid Shield, Flamarrest® Jacket, CMP

### Technical Specifications

#### Product Overview

Suitable Applications:	Broadband, Cable Television (CATV), RF drop cable, Direct Broadcast Satellite (DBS), Over-The-Air (OTA) antennas
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#### Construction Details

Series Type:	6
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#### Conductor

Size	Stranding	Nom. Diameter	Material
18 AWG	Solid	0.040 in	BCCS - Bare Copper Covered Steel

#### Insulation

Material	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene (Foam)	0.170 in (4.32 mm)	White

#### Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duobond® II	100%
2	Braid	Aluminum		60%

#### Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.235 in (5.97 mm)

Overall Cable Diameter (Nominal):	0.235 in (5.97 mm)
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#### Electrical Characteristics

##### Return Loss (RL)

Frequency	Min. Structural Return Loss
5 - 2500 MHz	15 dB
2500 - 3000 MHz	10 dB

##### Attenuation

Frequency	Nom. Attenuation
1 MHz	0.3 dB/100ft
10 MHz	0.7 dB/100ft
50 MHz	1.6 dB/100ft
100 MHz	2.1 dB/100ft
200 MHz	2.9 dB/100ft
400 MHz	4.3 dB/100ft
700 MHz	6.1 dB/100ft

750 MHz	6.4 dB/100ft
900 MHz	7.1 dB/100ft
1000 MHz	7.6 dB/100ft
1450 MHz	9.6 dB/100ft
1800 MHz	11.0 dB/100ft
2250 MHz	12.7 dB/100ft
3000 MHz	15.1 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
28 Ohm/1000ft	9 Ohm/1000ft (30 Ohm/km)	16.3 pF/ft (53.5 pF/m)	75 Ohm	83%

#### Voltage

<b>UL Voltage Rating</b>
300 V (CMP)

## Mechanical Characteristics

#### Temperature

<b>Operating</b>
-20°C to +75°C

#### Bend Radius

<b>Installation Min.</b>
2.4 in (61 mm)

Max. Pull Tension:	150 lbs (68 kg)
Bulk Cable Weight:	25 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	1829A

## History

Update and Revision:	Revision Number: 0.473 Revision Date: 05-03-2023
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## Part Numbers

#### 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

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