



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

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

### Product Description

Broadband Coax, Series 6, 18 AWG Solid Bare Copper Covered Steel Conductor, PE Insulation, Foil + 60% Aluminum Braid Shield, PVC Jacket, CMR

### 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

Number of Element	Size	Stranding	Nom. Diameter	Material
1	18 AWG	Solid	0.04 in	BCCS - Bare Copper Covered Steel

#### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.18 in (4.6 mm)	White

Table Notes:	Gas Injected
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#### Outer Shield

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

#### Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.275 in (6.99 mm)

Overall Cable Diameter (Nominal):	0.275 in (6.99 mm)
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#### Electrical Characteristics

##### Return Loss (RL)

Frequency	Min. Structural Return Loss
950 - 2250 MHz	15 dB
2250 - 3000 MHz	10 dB

##### Attenuation

Frequency	Nom. Attenuation	Max. Attenuation
5 MHz	0.5 dB/100ft	0.58 dB/100ft
55 MHz	1.4 dB/100ft	1.6 dB/100ft
211 MHz	2.6 dB/100ft	3.05 dB/100ft
500 MHz	4.1 dB/100ft	4.66 dB/100ft
750 MHz	5.1 dB/100ft	5.65 dB/100ft

862 MHz	5.5 dB/100ft	6.1 dB/100ft
1000 MHz	6 dB/100ft	6.55 dB/100ft
1450 MHz	7.8 dB/100ft	8 dB/100ft
1800 MHz	8.6 dB/100ft	8.8 dB/100ft
2250 MHz	9.8 dB/100ft	10 dB/100ft
3000 MHz	11.3 dB/100ft	11.9 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 (92 Ohm/km)	9 Ohm/1000ft (30 Ohm/km)	16.2 pF/ft (53.1 pF/m)	75 Ohm	83%

#### Voltage

UL Voltage Rating
300 V RMS

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating	Installation
75°C	-40°C To +80°C	-30°C To +80°C

#### Bend Radius

Stationary Min.	Installation Min.
2 in (51 mm)	2 in (51 mm)

Max. Pull Tension: 126 lbs (57.2 kg)

Bulk Cable Weight: 30 lbs/1000ft

### Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor
Flammability / Reaction to Fire:	UL 1666 Vertical Shaft, FT4
NEC / UL Compliance:	Article 800, CATVR, CMR
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	CEC/C(UL): CMG
Non-Plenum Number:	1829A

### Product Notes

Notes:	(1)RG Type :-In Stibo it was 6 But in BPCS only Series 6 is there. (2)# Elements@Conductor1:-In Stibo it was Blank and now changed to 1. (3)Size@Conductor1 :-In Stibo it was 18 now changed to 18AWG (4)Color@Color Chart1 01 :- In stibo it was Blank now Changed to White (5)Material@OuterShield1 1 - In stibo it is Tri-Laminate (Alum+Poly+Alum) But in BPCS (Heat fusible+ Alum+ Poly+Alum) (6)Coverage@OuterShield1 2 - in stibo it was 60% Now changed to 57% (7)Cable Diameter (Nominal)- In Stibo it was Blank Now Changed to 57% (8)Bulk Cable Weight - In stibo it was 29 lbs/1000 ft Now chnaged to 30 lbs/1000 ft
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### History

Update and Revision:	Revision Number: 0.468 Revision Date: 05-03-2023
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### Part Numbers

#### Variants

Item #	Color	Putup 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

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