



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

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

### Product Description

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

### 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	BC - Bare Copper

#### Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	0.180 in (4.57 mm)

#### 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	0.270 in (6.86 mm)

#### Electrical Characteristics

##### Return Loss (RL)

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

##### Attenuation

Frequency	Max. Attenuation
5 MHz	0.58 dB/100ft
55 MHz	1.60 dB/100ft
211 MHz	3.05 dB/100ft
250 MHz	3.30 dB/100ft
270 MHz	3.37 dB/100ft
300 MHz	3.55 dB/100ft
330 MHz	3.74 dB/100ft
350 MHz	3.85 dB/100ft
400 MHz	4.15 dB/100ft

450 MHz	4.40 dB/100ft
500 MHz	4.66 dB/100ft
550 MHz	4.90 dB/100ft
600 MHz	5.10 dB/100ft
750 MHz	5.65 dB/100ft
870 MHz	6.11 dB/100ft
1000 MHz	6.55 dB/100ft
1450 MHz	
1800 MHz	
2250 MHz	
3000 MHz	

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
6.4 Ohm/1000ft (21 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 (CM)

### Mechanical Characteristics

#### Temperature

Operating
-40°C to +75°C

#### Bend Radius

Installation Min.
2.7 in

Max. Pull Tension:	66 lbs (30 kg)
Bulk Cable Weight:	27 lbs/1000ft

### Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor, Sunlight Resistance, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 UL Loading
NEC / UL Compliance:	CMCATV
CEC / C(UL) Compliance:	CM
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)
Other Standard Compliance(s):	ANSI/SCTE 74

### History

Update and Revision:	Revision Number: 0.365 Revision Date: 04-14-2023
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### Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC
1829AC 010C100	Black	Coil	100 ft	612825123989
1829AC 010U250	Black	UnReel	250 ft	612825124009
1829AC 010U500	Black	UnReel	500 ft	612825124016
1829AC 0101000	Black	Reel	1,000 ft	612825124023
1829AC 010U1000	Black	UnReel	1,000 ft	612825123996
1829AC 008U1000	Gray	UnReel	1,000 ft	612825123927
1829AC 009C100	White	Coil	100 ft	612825123934
1829AC 009U250	White	UnReel	250 ft	612825123958
1829AC 009U500	White	UnReel	500 ft	612825123965
1829AC 0091000	White	Reel	1,000 ft	612825123972
1829AC 009U1000	White	UnReel	1,000 ft	612825123941

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