



Product: [1829A](#)

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

### Product Description

Broadband Coax, Series 6, 18 AWG Solid Bare Copper Covered Steel 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
------------------------	--

#### Construction Details

Series Type:	6
--------------	---

#### Conductor

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

#### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.180 in (4.57 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	0.270 in (6.86 mm)

Overall Cable Diameter (Nominal):	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

#### 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)	16.2 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 (69 mm)

Max. Pull Tension:	150 lbs (68 kg)
Bulk Cable Weight:	27 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 UL Loading
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CM, CATV
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ANSI/SCTE 74

## History

Update and Revision:	Revision Number: 0.473 Revision Date: 04-14-2023
----------------------	--

## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1829A 0101000	Black	Reel	1,000 ft	612825123910	C
1829A 010U1000	Black	UnReel	1,000 ft	612825123903	
1829A 0081000	Gray	Reel	1,000 ft	612825123873	Z
1829A 008U1000	Gray	UnReel	1,000 ft	612825123866	Z
1829A 0091000	White	Reel	1,000 ft	612825123897	Z
1829A 009U1000	White	UnReel	1,000 ft	612825123880	Z
1829A Q5H1000	White, Neutral	Reel	1,000 ft	612825123859	Z
1829A Q5HU1000	White, Neutral	UnReel	1,000 ft	612825123842	Z

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.