



Part Number: 1829A

CATV Video, RG6, 18 AWG BCCS, Foil + Braid, CM

Product Description

Series 6, 18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II, aluminum braid shield (60% coverage), PVC jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor (Not Riser or Plenum)

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material		Nominal Diameter	No. of Coax
18	Solid	BCCS - Bare Copper Co	overed Steel	0.04 in	1
Condu	uctor Count:		1		
AWG Size: 18		18			

Insulation

Material	Nominal Diameter
Gas-injected FPE - Foam Polyethylene	0.18 in

Outer Shield Material

Ту	e Laye	r Material	Material Trade Name	Coverage [%]
Tap	e 1	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	Bonded Duofoil®	100 %
Bra	id 2	AL - Aluminum		60 %

Outer Jacket Material

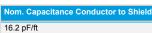
Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.27 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
28 Ohm/1000ft	9 Ohm/1000ft	9 Ohm/1000ft

Capacitance



Inductance

Nominal Inductance

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz] Min. Structural Return Loss (SRL)

5 - 1000 MHz	20 dB
1000 - 2250 MHz	20 dB
2250 - 3000 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	0.5 dB/100ft
55 MHz	1.4 dB/100ft
211 MHz	2.6 dB/100ft
500 MHz	4.1 dB/100ft
750 MHz	5.1 dB/100ft
862 MHz	5.5 dB/100ft
1000 MHz	6 dB/100ft
1450 MHz	7.8 dB/100ft
1800 MHz	8.6 dB/100ft
2250 MHz	9.8 dB/100ft
3000 MHz	11.3 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	83 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	0.58 dB/100ft
55 MHz	1.6 dB/100ft
211 MHz	3.05 dB/100ft
500 MHz	4.66 dB/100ft
750 MHz	5.65 dB/100ft
862 MHz	6.10 dB/100ft
1000 MHz	6.55 dB/100ft
1450 MHz	8 dB/100ft
1800 MHz	8.8 dB/100ft
2250 MHz	10 dB/100ft
3000 MHz	11.9 dB/100ft

Voltage

UL Voltage Rating 350V RMS

Temperature Range

On section Terms December	40°C To +80°C
Operating Temp Range:	-40°C 10 +80°C

Mechanical Characteristics

Bulk Cable Weight:	27 lbs/1000ft
Max Recommended Pulling Tension:	126 lbs
Min Bend Radius/Minor Axis:	2.75 in

Standards

NEC/(UL) Specification:	CATV, CM
CEC/C(UL) Specification:	СМ
CPR Euroclass:	Eca
RG Type:	RG-6/U Type
Series Type:	Series 6

Applicable Environmental and Other Programs

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:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
------------------	-------------------

Part Number

Plenum (Y/N):	No

Variants

Item #	Color	Footnote
1829A 0101000	BLACK	С
1829A 010U1000	BLACK	
1829A 0081000	GRAY	Z
1829A 008U1000	GRAY	Z
1829A 0091000	WHITE	Z
1829A 009U1000	WHITE	Z
1829A Q5H1000	WHITE, NEUTRAL	Z
1829A Q5HU1000	WHITE, NEUTRAL	Z

Footnote:	$Z-FINAL\ PUT-UP\ MAY\ VARY\ (=OR\ -)\ 10\%\ FOR\ SPOOLS\ OR\ REELS\ AND\ (+OR\ -)\ 5\%\ FOR\ UNREEL\ CARTONS\ FROM\ LENGTH\ SHOWN.$
Footnote:	C - CRATE REEL PUT-UP.

© 2018 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 incompliance with EU RoHS(Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be instock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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.

Belden declares this product to be incompliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.