

1829A Coax - Series 6

 For more Information
 please call

1-800-Belden1

**General 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 (black, gray, white or neutral).

Physical Characteristics (Overall)**Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BCCS - Bare Copper Covered Steel	.040

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	.180

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	60

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.270 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

Bulk Cable Weight: 27 lbs/1000 ft.

Max. Recommended Pulling Tension: 126 lbs.

Min. Bend Radius/Minor Axis: 2.750 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CATV, CM

CEC/C(UL) Specification: CM

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: No

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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Series Type:	Series 6
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Flame Test

UL Flame Test:	UL1685 UL Loading
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)

75.000

Nom. Inductance:

Inductance (μH/ft)

.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.2

Nominal Velocity of Propagation:

VP (%)

83

Nominal Delay:

Delay (ns/ft)

1.2

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

28.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

9

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
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5	.5
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55	1.4
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211	2.6
-----	-----

500	4.1
-----	-----

750	5.1
-----	-----

862	5.5
-----	-----

1000	6.0
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1450	7.8
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1800	8.6
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2250	9.8
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3000	11.3
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Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
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5	0.67
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55	1.60
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211	2.87
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500	4.48
-----	------

750	5.59
-----	------

862	5.98
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1000	6.54
1450	8.00
1800	8.80
2250	10.0
3000	11.9

Max. Operating Voltage - UL:

Voltage
350 V RMS

Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
950	2250	15
2250	3000	10

Sweep Test

Sweep Testing: 950 MHz - 3 GHz

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1829A Q5HU1000	1,000 FT	29.000 LB	WHITE, NEUTRAL	Z	#18 GIFHDLDPPE SH FR PVC
1829A Q5H1000	1,000 FT	30.000 LB	WHITE, NEUTRAL	Z	#18 GIFHDLDPPE SH FR PVC
1829A 008U1000	1,000 FT	29.000 LB	GRAY	Z	#18 GIFHDLDPPE SH FR PVC
1829A 0081000	1,000 FT	30.000 LB	GRAY	Z	#18 GIFHDLDPPE SH FR PVC
1829A 009U1000	1,000 FT	29.000 LB	WHITE	Z	#18 GIFHDLDPPE SH FR PVC
1829A 0091000	1,000 FT	30.000 LB	WHITE	Z	#18 GIFHDLDPPE SH FR PVC
1829A 010U1000	1,000 FT	29.000 LB	BLACK		#18 GIFHDLDPPE SH FR PVC
1829A 0101000	1,000 FT	30.000 LB	BLACK	C	#18 GIFHDLDPPE SH FR PVC

Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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