

# Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

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. (mm)
1	18	Solid	BCCS - Bare Copper Covered Steel	1.016

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	4.572

### 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: 6.858 mm

## Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 40.181 Kg/Km

Max. Recommended Pulling Tension: 560.473 N

Min. Bend Radius/Minor Axis: 69.850 mm

## 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

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Series Type: Series 6

### Flame Test

UL Flame Test: UL1685 UL Loading

**Plenum/Non-Plenum**

Plenum (Y/N):  No

**Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)  
75.000

Nom. Inductance:

Inductance ( $\mu$ H/m)  
0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)  
53.1522

Nominal Velocity of Propagation:

VP (%)  
83

Nominal Delay:

Delay (ns/m)  
3.9372

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)  
91.868

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)  
29.529

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
5	1.6405
55	4.5934
211	8.5306
500	13.4521
750	16.7331
862	18.0455
1000	19.686
1450	25.5918
1800	28.2166
2250	32.1538
3000	37.0753

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
5	2.19827
55	5.2496
211	9.41647
500	14.6989
750	18.3408
862	19.6204
1000	21.4577
1450	26.248
1800	28.8728
2250	32.81
3000	39.0439

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:**

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