

## 1829B Coax - Series 6

For more Information  
please call

1-800-Belden1

**Description:**

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

**Physical Characteristics (Overall)****Conductor**

AWG:

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

**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 Shield Flooding Grease: CoreGuard®

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

**Overall Cable**

Overall Nominal Diameter: 0.270 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -55°C To +80°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 24 lbs/1000 ft.

Max. Recommended Pulling Tension: 126 lbs.

Min. Bend Radius (Install)/Minor Axis: 3 in.

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

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
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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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**Suitability**

Suitability - Burial:	Yes
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**Plenum/Non-Plenum**

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

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

**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.)
5	.5
55	1.4
211	2.6
500	4.1
750	5.1
862	5.5
1000	6.0
1450	7.8
1800	8.6
2250	9.8
3000	11.3

**Max. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
5	0.67
55	1.60
211	2.87
500	4.48
750	5.59
862	5.98
1000	6.54
1450	8.0

1800	8.8
2250	10.0
3000	11.9

**Max. Operating Voltage - Non-UL:**

<b>Voltage</b>
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

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1829B 0101000	1,000 FT	26.000 LB	BLACK	C	#18 GIFHDLDP SH PE

**Notes:**

C = CRATE REEL PUT-UP.

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