

## 1829R Coax - DBS Cable

For more Information  
please call

1-800-Belden1

**General Description:**

18 AWG solid bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond®II (100% coverage) and an aluminum braid shield (60% coverage), PVC jacket.

**Usage (Overall)**

Suitable Applications: Satellite, DBS, TV, Antenna

**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: 0.275 in.

**Mechanical Characteristics (Overall)**

Installation Temperature Range:	-30°C To +80°C
Operating Temperature Range:	-40°C To +80°C
Bulk Cable Weight:	29 lbs/1000 ft.
Max. Recommended Pulling Tension:	126 lbs.
Min. Bend Radius/Minor Axis:	2 in.

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

NEC/(UL) Specification:	CATVR, CMR
CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes

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
MIL Order #39 (China RoHS):	Yes
Series Type:	Series 6

**Flame Test**

CSA Flame Test:	FT4
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
Non-Plenum Number:	1829A

**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.)
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5	0.67
55	1.60
211	2.87
500	4.48
750	5.59
862	5.98
1000	6.54
1450	8.00
1800	8.80
2250	10.0
3000	11.9

**Max. Operating Voltage - UL:**

Voltage
300 V RMS (CM)

**Typical Structural Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Typical SRL (dB)
5	950	30
950	3000	24

**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
1829R 008U1000	1,000 FT	31.000 LB	GRAY		#18 GIFHDLDPPE SH FR PVC
1829R 009U1000	1,000 FT	31.000 LB	WHITE		#18 GIFHDLDPPE SH FR PVC
1829R 010U1000	1,000 FT	31.000 LB	BLACK		#18 GIFHDLDPPE SH FR PVC

Revision Number: 3    Revision Date: 08-09-2012

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