# **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



### 1829R Coax - DBS Cable

For more Information please call

1-800-Belden1



# **General Description:**

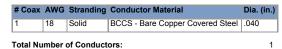
18 AWG solid bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond®II (100% coverage) and an aluminum braid shield (60% coverage), PVC jacket.

# Usage (Overall)

Suitable Applications: Satellite, DBS, TV, Antenna

### **Physical Characteristics (Overall)**

### Conductor AWG:



### 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®	Таре	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

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MII Order #39 (China RoHS):	Yes	
Series Type:	Series 6	
Flame Test		
CSA Flame Test:	FT4	
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:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)	ı,
28.0	1

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	8.00
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

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950	3000	24

#### Minimum Structural Return Loss:

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

### **Sweep Test**

950 MHz - 3 GHz Sweep Testing:

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1829R 008U1000	1,000 FT	32.000 LB	GRAY		#18 GIFHDLDPE SH FR PVC
1829R 009U1000	1,000 FT	32.000 LB	WHITE		#18 GIFHDLDPE SH FR PVC
1829R 010U1000	1,000 FT	32.000 LB	BLACK		#18 GIFHDLDPE SH FR PVC

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

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