Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



1829R Coax - DBS Cable

For more Information please call

1-800-Belden1



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

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)

Installation Temperature Range:	-30°C To +80°C
Operating Temperature Range:	-40°C To +80°C
Bulk Cable Weight:	30 lbs/1000 ft.
Max. Recommended Pulling Tension:	126 lbs.
Min. Bend Radius (Install)/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 CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes

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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:	UL1666 Riser, UL1685 FT4 Loading
CSA Flame Test:	FT4
IEEE Flame Test:	IEEE 1202
Plenum/Non-Plenum	
Plenum (Y/N):	No
Non-Plenum Number:	1829A

Electrical Characteristics (Overall)

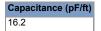
Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

Nom. Inductance:

Inductance (µH/ft) .097

Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000	ft)
28.0	П

Nominal Outer Shield DC Resistance:

D	CR @ 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

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1829R 008U1000	1,000 FT	31.000 LB	GRAY		#18 GIFHDLDPE SH FR PVC
1829R 009U1000	1,000 FT	31.000 LB	WHITE		#18 GIFHDLDPE SH FR PVC
1829R 010U1000	1,000 FT	31.000 LB	BLACK		#18 GIFHDLDPE SH FR PVC

Revision Number: 3 Revision Date: 04-25-2008

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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