Detailed Specifications & Technical Data

BELDEN
SENDING ALL THE RIGHT SIGNALS

1829R Coax - DBS Cable

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1-800-Belden1

See Put-ups and Colors

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.

SUITABLE APPLICATIONS:

Suitable Applications	Satellite, DBS, TV, Antenna

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
Series Type	Series 6
AWG	18
Stranding	Solid
Conductor Diameter	.040 in.
Conductor Material	BCCS - Bare Copper Covered Steel

INSULATION:

Insulation Material	Gas-injected FPE - Foam Polyethylene
Insulation Diameter	.180 in.

OUTER SHIELD:

Outer Shield Material Trade Name	Duobond® II
Outer Shield Type	Tape/Braid

Outer Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	60

Outer Shield %Coverage	100 %

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.270 in.

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MECHANICAL CHARACTERISTICS:

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

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CATVR, CMR
CEC/C(UL) Specification	CMG
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

FLAME TEST:

UL Flame Test	UL1666 Riser, UL1685 FT4 Loading
CSA Flame Test	FT4
IEEE Flame Test	IEEE 1202

SWEEP TEST:

Sweep Testing	950 MHz - 3 GHz

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Non-Plenum Number	1829A

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 +/- 3 Ohms
Nom. Inductance	.097 µH/ft
Nom. Capacitance Conductor to Shield	16.2 pF/ft
Nominal Velocity of Propagation	83 %
Nominal Delay	1.2 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	28.0 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg.C	9 Ohms/1000 ft

Typical Structural Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Typical Structural Return Loss (dB)
		5	950	30
		950	3000	24

Minimum Structural Return Loss :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Structural Return Loss (dB)
		950	2250	15
		2250	3000	10

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. 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 :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. 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	300 V RMS (CM)

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1829R 008U1000	#18 GIFHDLDPE SH FR PVC	U1000	31	GRAY	
1829R 009U1000	#18 GIFHDLDPE SH FR PVC	U1000	31	WHITE	
1829R 010U1000	#18 GIFHDLDPE SH FR PVC	U1000	31	BLACK	

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