

1829A Coax - DBS Cable



Description:

18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond®II and a 60% aluminum braid shield, PVC jacket.

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 %
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OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.270 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +80°C
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Bulk Cable Weight	30 lbs/1000 ft.
Max. Recommended Pulling Tension	126 lbs.
Min. Bend Radius (Install)	3 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CATV, CM
CEC/C(UL) Specification	CM

FLAME TEST:

UL Flame Test	UL1581 Vertical Tray
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SWEEP TEST:

Sweep Testing	950 MHz - 2.25 GHz
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PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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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°C	9 Ohms/1000 ft

Minimum Structural Return Loss :

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

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			7.9
	1800			8.4
	2250			10.1

Max. Attenuation :

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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			8.30
	1800			9.30
	2250			10.60

Max. Operating Voltage - UL 350 V RMS

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1829A 0081000	#18 GIFHDLDP SH FR PVC	1000	31	GRAY	Z
1829A 008U1000	#18 GIFHDLDP SH FR PVC	U1000	30	GRAY	Z
1829A 0091000	#18 GIFHDLDP SH FR PVC	1000	31	WHITE	Z
1829A 009U1000	#18 GIFHDLDP SH FR PVC	U1000	30	WHITE	Z
1829A 0101000	#18 GIFHDLDP SH FR PVC	1000	32	BLACK	C
1829A 010U1000	#18 GIFHDLDP SH FR PVC	U1000	31	BLACK	
1829A 010U1001	#18 GIFHDLDP SH FR PVC	U1001	30.03	BLACK	
1829A Q5H1000	#18 GIFHDLDP SH FR PVC	1000	31	WHITE, NEUTRAL	Z
1829A Q5HU1000	#18 GIFHDLDP SH FR PVC	U1000	30	WHITE, NEUTRAL	Z

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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