


1829BC Coax - Series 6

 	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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Description:

Series 6, 18 AWG solid .040" bare copper or bare copper-covered steel conductor (see below), gas-injected foam polyethylene insulation, Duobond® II + aluminum braid shield (60% coverage), black polyethylene jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
Series Type	Series 6
AWG	18
Stranding	Solid
Conductor Diameter	.0403 in.
Conductor Material	BCAC - Bare Copper w/Anti-Corrosion Treatment
Corrosion Resistance	Yes

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 Shield Flooding Grease	CoreGuard®

OUTER JACKET:

Outer Jacket Material	PE - Polyethylene
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OVERALL NOMINAL DIAMETER:



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Overall Nominal Diameter	.270 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-55°C To +80°C
Non-UL Temperature Rating	80°C
Bulk Cable Weight	24 lbs/1000 ft.
Max. Recommended Pulling Tension	80 lbs.
Min. Bend Radius (Install)	2.75 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

EU CE Mark (Y/N)	No
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

SWEEP TEST:

Sweep Testing	950 MHz - 3 GHz
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SUITABILITY:

Suitability - Burial	Yes
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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	6.4 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
		2250	3000	10

Nom. Attenuation :

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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
	3000			11.0

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			8.30
	1800			9.30
	2250			10.60
	3000			11.90

Max. Operating Voltage - Non-UL

300 V RMS

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1829BC 0101000	#18 LDPE/GIFHDLDP SH PE	1000	24	BLACK	C

C = CRATE REEL PUT-UP.

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