Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

1829BC Coax - Series 6



For more Information please call

1-800-Belden1



General Description:

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

Physical Characteristics (Overall)	
Conductor AWG:	
# Coax AWG Stranding Conductor Material	Dia. (mm)
1 18 Solid BCAC - Bare Copper w/Anti-Corr	rosion Treatment 1.02362
Total Number of Conductors:	1
Corrosion Resistance:	Yes
Insulation Insulation Material:	
Insulation Material Dia. (mm)	
Gas-injected FPE - Foam Polyethylene 4.572	
Outer Shield Outer Shield Material:	
Layer # Outer Shield Trade Name Type Outer Shield M	laterial Coverage (%)
	um Foil-Polyester Tape-Aluminum Foil 100
2 Braid AL - Aluminum	60
Outer Shield Flooding Grease:	CoreGuard®
Outer Jacket Outer Jacket Material:	
Outer Jacket Material PE - Polyethylene	
Overall Cable	
Overall Nominal Diameter:	6.858 mm
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-55°C To +80°C
Non-UL Temperature Rating:	80°C
Bulk Cable Weight:	35.717 Kg/Km
Max. Recommended Pulling Tension:	355.856 N
Min. Bend Radius/Minor Axis:	69.850 mm
Applicable Specifications and Agency Com	pliance (Overall)
Applicable Standards & Environmental Program	ns
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
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
Suitability	
Suitability - Burial:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75.000

Nom. Inductance:

Inductance (µH/m)

0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

53.1522

Nominal Velocity of Propagation:

VP (%) 83

Nominal Delay:

Delay (ns/m)

3.9372

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

20.9984

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

29.529

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

5	1.6405
55	4.5934
211	8.5306
500	13.4521
750	16.7331
862	18.0455
1000	19.686
1450	25.5918
1800	28.2166
2250	32.1538
3000	37.0753

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
5	2.19827
55	5.2496
211	9.41647
500	14.6989
750	18.3408

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862	19.6204
1000	21.4577
1450	26.248
1800	28.8728
2250	32.81
3000	39.0439

Max. Operating Voltage - Non-UL:

Voltage 300 V RMS

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1829BC 0101000	1,000 FT	26.000 LB	BLACK	С	#18 LDPE/GIFHDLDPE SH PE

Notes:

C = CRATE REEL PUT-UP.

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