

**1829AC**



**Coax - Series 6**

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

**For more information please call**

**1-800-Belden1**



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**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1829AC 008U1000	305 MT	13.608 KG	GRAY	C	#18 GIFHDLDP E SH FR PVC
1829AC 009U1000	305 MT	13.608 KG	WHITE	C	#18 GIFHDLDP E SH FR PVC
1829AC 0091000	305 MT	14.061 KG	WHITE	C	#18 GIFHDLDP E SH FR PVC
1829AC 010U1000	305 MT	13.608 KG	BLACK	C	#18 GIFHDLDP E SH FR PVC
1829AC 0101000	305 MT	14.061 KG	BLACK	C	#18 GIFHDLDP E SH FR PVC

**Notes:**  
C = CRATE REEL PUT-UP.

**Physical Characteristics (Overall)**

**Conductor**

**AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	Solid	BCAC - Bare Copper w/Anti-Corrosion Treatment	1.016

**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 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:** 6.858 mm

**Mechanical Characteristics (Overall)**

**Installation Temperature Range:** -30°C To +80°C

**Operating Temperature Range:** -40°C To +80°C

**Bulk Cable Weight:** 44.646 Kg/Km

**Max. Recommended Pulling Tension:** 355.856 N

**Min. Bend Radius (Install)/Minor Axis:** 50.800 mm

**Applicable Specifications and Agency Compliance (Overall)**

**Applicable Standards & Environmental Programs**

**NEC/(UL) Specification:** CATV, CM

**CEC/C(UL) Specification:** CM

**EU CE Mark:** Yes

**EU Directive 2000/53/EC (ELV):** Yes

**EU Directive 2002/95/EC (RoHS):** Yes

**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:	UL1685 UL Loading
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#### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

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

#### Max. Operating Voltage - 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

Revision Number: 5    Revision Date: 03-13-2012

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