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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), PVC jacket (black, gray, white or neutral).

## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BCAC - Bare Copper w/Anti-Corrosion Treatment	.040

Total Number of Conductors: 1

Corrosion Resistance: Yes

### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	.180

### 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: 0.270 in.

## Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 28 lbs/1000 ft.

Max. Recommended Pulling Tension: 80 lbs.

Min. Bend Radius/Minor Axis: 2.750 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CATV, CM

CEC/C(UL) Specification: CM

EU Directive 2011/65/EU (ROHS II): Yes

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

### Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

**Impedance (Ohm)**  
75.000

#### Nom. Inductance:

**Inductance (µH/ft)**  
.097

#### Nom. Capacitance Conductor to Shield:

**Capacitance (pF/ft)**  
16.2

#### Nominal Velocity of Propagation:

**VP (%)**  
83

#### Nominal Delay:

**Delay (ns/ft)**  
1.2

#### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/1000 ft)**  
6.4

#### Nominal Outer Shield DC Resistance:

**DCR @ 20°C (Ohm/1000 ft)**  
9

#### Nom. Attenuation:

Freq. (MHz)	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:

Freq. (MHz)	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:

**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
1829AC 008U1000	1,000 FT	31.000 LB	GRAY	C	#18 GIFHDLDPPE SH FR PVC
1829AC 009C100	100 FT	2.800 LB	WHITE		#18 GIFHDLDPPE SH FR PVC
1829AC 009U1000	1,000 FT	30.000 LB	WHITE	C	#18 GIFHDLDPPE SH FR PVC
1829AC 009U250	250 FT	8.750 LB	WHITE		#18 GIFHDLDPPE SH FR PVC
1829AC 009U500	500 FT	16.000 LB	WHITE		#18 GIFHDLDPPE SH FR PVC
1829AC 0091000	1,000 FT	30.000 LB	WHITE	C	#18 GIFHDLDPPE SH FR PVC
1829AC 010C100	100 FT	2.800 LB	BLACK		#18 GIFHDLDPPE SH FR PVC
1829AC 010U1000	1,000 FT	30.000 LB	BLACK	C	#18 GIFHDLDPPE SH FR PVC
1829AC 010U250	250 FT	8.750 LB	BLACK		#18 GIFHDLDPPE SH FR PVC
1829AC 010U500	500 FT	16.000 LB	BLACK		#18 GIFHDLDPPE SH FR PVC
1829AC 0101000	1,000 FT	30.000 LB	BLACK	C	#18 GIFHDLDPPE SH FR PVC

**Notes:**

C = CRATE REEL PUT-UP.

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