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1-800-Belden1



## General Description:

Series 6, 18 AWG solid .040" bare copper-covered steel 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. (mm)
1	18	Solid	BCCS - Bare Copper Covered Steel	1.016

Total Number of Conductors: 1

### 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)

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

Bulk Cable Weight: 40.181 Kg/Km

Max. Recommended Pulling Tension: 560.473 N

Min. Bend Radius/Minor Axis: 69.850 mm

## 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: No

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/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)

91.868

### 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:**

<b>Voltage</b>
350 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
1829A Q5HU1000	305 MT	13.154 KG	WHITE, NEUTRAL	Z	#18 GIFHDLDP E SH FR PVC
1829A Q5H1000	305 MT	13.608 KG	WHITE, NEUTRAL	Z	#18 GIFHDLDP E SH FR PVC
1829A 008U1000	305 MT	13.154 KG	GRAY	Z	#18 GIFHDLDP E SH FR PVC
1829A 0081000	305 MT	13.608 KG	GRAY	Z	#18 GIFHDLDP E SH FR PVC
1829A 009U1000	305 MT	13.154 KG	WHITE	Z	#18 GIFHDLDP E SH FR PVC
1829A 0091000	305 MT	13.608 KG	WHITE	Z	#18 GIFHDLDP E SH FR PVC
1829A 010U1000	305 MT	13.154 KG	BLACK		#18 GIFHDLDP E SH FR PVC
1829A 0101000	305 MT	13.608 KG	BLACK	C	#18 GIFHDLDP E SH FR PVC

**Notes:**

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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