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1-800-Belden1



## General Description:

18 AWG solid .040" bare copper conductor, gas-injected foam polyethylene insulation, Duobond® + aluminum braid shield (77% coverage), PVC jacket.

## Usage (Overall)

**Suitable Applications:** HDTV, DBS, Broadband CATV, Cable Modem

## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	Solid	BC - Bare Copper	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	77
3		Tape	Bonded Aluminum Foil-Polyester Tape w/Shorting Fold	100

### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

### Overall Cable

**Overall Nominal Diameter:** 6.985 mm

## Mechanical Characteristics (Overall)

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

**UL Temperature Rating:** 80°C

**Bulk Cable Weight:** 47.622 Kg/Km

**Max. Recommended Pulling Tension:** 404.786 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:	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)

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)

15.0926

### 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
350 V RMS

**Shield Effectiveness:**

Start Freq. (MHz)	Stop Freq. (MHz)	Effectiveness (dB)
5	50	105
50	1000	125

**Minimum Structural Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5	1000	20
1000	2250	15
2250	3000	10

**Sweep Test**

**Sweep Testing:** 5 MHz - 3 GHz

**Notes (Overall)**

**Notes:** Shielding effectiveness determined from screening attenuation measurement when tested in accordance with IEC 61196-1.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7915A 009U1000	305 MT	13.608 KG	WHITE		#18 GIFHDLDPPE SH FS PVC
7915A 009U500	152 MT	7.031 KG	WHITE		#18 GIFHDLDPPE SH FS FRPVC
7915A 0091000	305 MT	13.608 KG	WHITE	C	#18 GIFHDLDPPE SH FS FRPVC
7915A 009500	152 MT	7.031 KG	WHITE	C	#18 GIFHDLDPPE SH FS FRPVC
7915A 010U1000	305 MT	13.608 KG	BLACK		#18 GIFHDLDPPE SH FS PVC
7915A 010U500	152 MT	7.031 KG	BLACK		#18 GIFHDLDPPE SH FS FRPVC
7915A 0101000	305 MT	13.608 KG	BLACK	C	#18 GIFHDLDPPE SH FS FRPVC
7915A 010500	152 MT	7.031 KG	BLACK	C	#18 GIFHDLDPPE SH FS FRPVC

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

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