**ENGLISH MEASUREMENT VERSION** 



## 7916A Coax - Series 6

For more Information please call

1-800-Belden1



## **Description:**

Series 6, 18 AWG solid .040" bare copper conductor, gas-injected foam polyethylene insulation, Duobond® + aluminum braid shields (60% and 40% coverage), PVC jacket (black or white).

## **Usage (Overall)**

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

## **Physical Characteristics (Overall)**

### Conductor

#### AWG:

# Coax	AWG	Stranding	<b>Conductor Material</b>	Dia. (in.)
1	18	Solid	BC - Bare Copper	.040

#### Insulation

#### **Insulation Material:**

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

#### **Outer Shield**

## **Outer Shield Material:**

Layer #	Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	60
3	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
4		Braid	AL - Aluminum	40

## **Outer Jacket**

#### **Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

## **Overall Cable**

Overall Nominal Diameter: 0.298 in.

# **Mechanical Characteristics (Overall)**

Storage Temperature Range:	-40°C To +80°C
Installation Temperature Range:	-30°C To +80°C
Operating Temperature Range:	-40°C To +80°C
Bulk Cable Weight:	32 lbs/1000 ft.
Max. Recommended Pulling Tension:	104 lbs.
Min. Bend Radius (Install)/Minor Axis:	3 in.

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

## **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CATV, CM
CEC/C(UL) Specification:	СМ

Page 1 of 4 01-06-2012

## **ENGLISH MEASUREMENT VERSION**



7916A Coax - Series 6

	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
Fla	ime Test	
	UL Flame Test:	UL1685 UL Loading
Ple	enum/Non-Plenum	
	Plenum (Y/N):	No
	Plenum Number:	7916AP

## **Electrical Characteristics (Overall)**

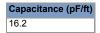
Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

Nom. Inductance:



Nom. Capacitance Conductor to Shield:



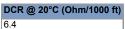
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
5	0.5
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:

Page 2 of 4 01-06-2012

## **ENGLISH MEASUREMENT VERSION**



7916A Coax - Series 6

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

#### **Shield Effectiveness:**

Start Freq. (MI	Hz) Stop Freq	. (MHz) Effectiveness (dB)
5	50	105
50	1000	110

## **Typical Structural Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Typical SRL (dB)
5	1000	30
1000	3000	24

### **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.

### **Related Documents:**

No related documents are available for this product

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7916A 009U1000	1,000 FT	36.000 LB	WHITE		#18 LDPE/GIFHDLDPE DBSH FRPVC
7916A 009U500	500 FT	18.500 LB	WHITE		#18 LDPE/GIFHDLDPE DBSH FRPVC
7916A 0091000	1,000 FT	35.000 LB	WHITE	С	#18 LDPE/GIFHDLDPE DBSH FRPVC
7916A 009500	500 FT	19.500 LB	WHITE	С	#18 LDPE/GIFHDLDPE DBSH FRPVC
7916A 010U1000	1,000 FT	36.000 LB	BLACK		#18 LDPE/GIFHDLDPE DBSH FRPVC
7916A 010U500	500 FT	18.500 LB	BLACK		#18 LDPE/GIFHDLDPE DBSH FRPVC
7916A 0101000	1,000 FT	35.000 LB	BLACK	С	#18 LDPE/GIFHDLDPE DBSH FRPVC
7916A 010500	500 FT	19.500 LB	BLACK	С	#18 LDPE/GIFHDLDPE DBSH FRPVC

### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 5 Revision Date: 07-14-2011

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Page 3 of 4 01-06-2012

## **ENGLISH MEASUREMENT VERSION**



7916A Coax - Series 6

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Page 4 of 4