



Product: [7916A](#)

**Product Description**

**Technical Specifications**

**Product Overview**

Suitable Applications:	HDTV, DBS, Broadband CATV, Cable Modem
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**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BC - Bare Copper	0.04 in	1

Conductor Count:	1
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**Insulation**

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.18 in

Table Notes:	Gas Injected
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**Outer Shield**

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duobond® II	100%
Braid	2	Aluminum		60%
Tape	3	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	4	Aluminum		40%

**Outer Jacket**

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.298 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
6.4 Ohm/1000ft	4.8 Ohm/1000ft	4.8 Ohm/1000ft

**Capacitance**

Nom. Capacitance Conductor to Shield
16.2 pF/ft

**Inductance**

Nominal Inductance
0.097 µH/ft

**Impedance**

Nominal Characteristic Impedance
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75 Ohm

#### Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5-1000 MHz	20 dB
1000-2250 MHz	15 dB
2250-3000 MHz	10 dB

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss	Nom. Structural Return Loss (SRL)
5 MHz	0.5 dB/100ft	30 dB
55 MHz	1.4 dB/100ft	24 dB
211 MHz	2.6 dB/100ft	
500 MHz	4.1 dB/100ft	
750 MHz	5.1 dB/100ft	
862 MHz	5.5 dB/100ft	
1000 MHz	6 dB/100ft	
1450 MHz	7.8 dB/100ft	
1800 MHz	8.6 dB/100ft	
2250 MHz	9.8 dB/100ft	
3000 MHz	11.3 dB/100ft	

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	83%

#### High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	0.58 dB/100ft
55 MHz	1.6 dB/100ft
211 MHz	3.05 dB/100ft
500 MHz	4.66 dB/100ft
750 MHz	5.65 dB/100ft
862 MHz	6.1 dB/100ft
1000 MHz	6.55 dB/100ft
1450 MHz	8 dB/100ft
1800 MHz	8.8 dB/100ft
2250 MHz	10 dB/100ft
3000 MHz	11.9 dB/100ft

#### Screening

Frequency [MHz]	Shield Effectiveness
5 MHz	
50 MHz	110 dB
50 MHz	
1000 MHz	

#### Voltage

UL Voltage Rating
300 V RMS

#### Temperature Range

Operating Temp Range:	-40°C To +75°C
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#### Mechanical Characteristics

Bulk Cable Weight:	33 lbs/1000ft
Max. Pull Tension:	104 lbs
Min. Bend Radius/Minor Axis:	3 in

#### Standards

NEC/(UL) Compliance:	CATV, CM
CEC/C(UL) Compliance:	CM

RG Type:	6
Series Type:	6

## Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
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## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	7916AP

## Part Number

### Variants

Item #	Color	Put-Up Type	Length	UPC
7916A 010500	Black	Reel	500 ft	612825191124
7916A 010U500	Black	UnReel	500 ft	612825191148
7916A 0101000	Black	Reel	1,000 ft	612825191117
7916A 010U1000	Black	UnReel	1,000 ft	612825191094
7916A 0105000	Black	Reel	5,000 ft	612825191087
7916A 009500	White	Reel	500 ft	612825191049
7916A 009U500	White	UnReel	500 ft	612825191100
7916A 0091000	White	Reel	1,000 ft	612825191070
7916A 009U1000	White	UnReel	1,000 ft	612825191056

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.403 Revision Date: 12-15-2021
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