#### **ENGLISH MEASUREMENT VERSION**



## 1347A Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information please call

1-800-Belden1



#### **General Description:**

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

**Nominal Velocity of Propagation:** 

16.300

82.000

Nominal Delay:

Delay (ns/ft)

Coax (2 - 1505A Type) 20 AWG BC, GIFPE isulation, Duofoil® plus TC braid (95% cv.), PVC inner jackets. Pairs (4 - 9451 Type): 22 AWG TC, PP insul., drain, Beldfoil® shield bonded to pair jacket. Color coded jackets. Cabled. Overall flex. PVC jacket.

### **Usage (Overall)** Suitable Applications: Electronic News Gathering (ENG), Electronic Field Production (EFP), Analog Audio + Digital Video Composite Applications, 2V + 4A Coax **Physical Characteristics** Conductor AWG: # Coax AWG Stranding Conductor Material Dia. (in.) BC - Bare Copper 0.034 Insulation Insulation Material: Insulation Material Gas- injected FPE - Foam Polyethylene | 0.145 **Outer Shield** Outer Shield Material: Outer Shield Trade Name Type Outer Shield Material Coverage (%) Duofoil® Tape Aluminum Foil-Polyester Tape-Aluminum Foil 100.000 Braid TC - Tinned Copper 95.000 **Outer Jacket Outer Jacket Material: Outer Jacket Material** PVC - Polyvinyl Chloride Outer Jacket Color Code Chart: Number Color Black White **Overall Diameter Overall Nominal Diameter:** 0.233 in **Applicable Specifications and Agency Compliance Applicable Standards & Environmental Programs** Series Type: 59/U **Electrical Characteristics** Nom. Characteristic Impedance: 75 Nom. Inductance: Inductance (µH/ft) 0.107

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1.220

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 10.000

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 3.800

#### Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)	
5.000	850.000	20.000	
850.000	4500.000	15.000	

#### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.300
3.600	0.600
5.000	0.630
7.000	0.740
10.000	0.900
67.500	2.050
71.500	2.100
88.500	2.200
100.000	2.300
135.000	2.700
143.000	2.800
180.000	3.100
270.000	3.800
360.000	4.400
540.000	5.500
720.000	6.400
750.000	6.500
1000.000	7.600
1500.000	9.300
2000.000	10.900
2250.000	11.600
3000.000	13.400
4500.000	16.400

Max. Operating Voltage - UL:

300 V RMS

Other Electrical Characteristic 1:

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75  $\pm$ 1.5 Ohms. Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

## **Twisted Pair**

#### **Physical Characteristics**

# Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	22	7x30	BC - Bare Copper

#### Insulation

Insulation Material:

| Insulation Material Dia. (in.) | PP - Polypropylene | 0.046

### **Outer Shield**

Outer Shield Material:

Outer Shield Trade Name T		Outer Shield Material	Coverage (%)
Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100.000

#### Outer Shield Drain Wire AWG:

AWG	Stranding	<b>Drain Wire Conductor Material</b>
22	7x30	TC - Tinned Copper

#### **Outer Jacket**

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.020

Outer Jacket Color Code Chart:

Number Color

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# **ENGLISH MEASUREMENT VERSION**



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1         Brown           2         Red           3         Orange           4         Yellow			
Overall Diameter	0.405 in		
Overall Nominal Diameter:  Electrical Characteristics	0.135 in.		
Input/Unfitted Impedance: Impedance (Ohm) 45.000			
Nom. Inductance: Inductance (µH/ft) 0.170			
Nom. Capacitance Conductor to Conductor:  Capacitance (pF/ft)  35.000			
Nom. Capacitance Cond. to Other Conductor & Shield:  Capacitance (pF/ft)  67.000			
Nominal Velocity of Propagation:  VP (%)  66.000			
Nominal Delay:  Delay (ns/ft)  1.500			
Maximum Conductor DC Resistance:  DCR @ 20°C (Ohm/100 m)  14.100			
Nominal Outer Shield DC Resistance:  DCR @ 20°C (Ohm/1000 ft)  14.300  Max. Operating Voltage - UL:  Voltage			
300 V RMS  Max. Recommended Current:  Current  2.9 Amps per conductor @ 25°C			
Physical Characteristics (Overall)			
Outer Shield Outer Shield Material: Outer Shield Material Unshielded			
Outer Jacket Outer Jacket Material:  Outer Jacket Material  PVC - Polyvinyl Chloride			
Overall Cable Overall Nominal Diameter:	0.640 in.		
	V.UTO III.		
Mechanical Characteristics (Overall)  Operating Temperature Range:	-20°C To +60°C		
Bulk Cable Weight:	190 lbs/1000 ft.		
Max. Recommended Pulling Tension:	213 lbs.		
Min. Bend Radius/Minor Axis:	6.500 in.		
Applicable Specifications and Agency Compliance (Ov	rerall)		
Applicable Standards & Environmental Programs			
NEC/(UL) Specification:	CMR		
CEC/C(UL) Specification:	CMG		

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## 1347A Composite - Composite Data, Audio, Video, Security and Control Cable

	EU Directive 2011/65/EU (ROHS II):	Yes
	EU Directive 2000/53/EC (ELV):	Yes
	EU Directive 2002/95/EC (RoHS):	Yes
	EU RoHS Compliance Date (mm/dd/yyyy):	06/05/2006
	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
Flai	ne Test	
	UL Flame Test:	UL1666 Riser
	CSA Flame Test:	FT4
	IEEE Flame Test:	1202
Ple	num/Non-Plenum	
	Plenum (Y/N):	No

#### **Electrical Characteristics (Overall)**

Max. Operating Voltage - UL:

Voltage 300 V RMS

#### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1347A B591000	1,000 FT	232.000 LB	BLACK, MATTE	С	COMPOSITE ENG CABLE PVC
1347A B59500	500 FT	108.500 LB	BLACK, MATTE	С	COMPOSITE ENG CABLE PVC

Notes:

C = CRATE REEL PUT-UP.

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