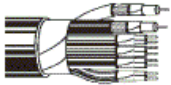


## 1347A Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information  
please call

1-800-Belden1



### General Description:

Coax (2 - 1505A Type) 20 AWG BC, GIFPE insulation, Dufofoil® 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.)
2	20	Solid	BC - Bare Copper	0.034

##### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	0.145

##### Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Dufofoil®	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
1	Black
2	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:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/ft)
0.107

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.300

Nominal Velocity of Propagation:

VP (%)
82.000

Nominal Delay:

Delay (ns/ft)

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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 +/- 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	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire	Conductor Material
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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1	Brown
2	Red
3	Orange
4	Yellow

### Overall Diameter

Overall Nominal Diameter: 0.135 in.

### Electrical Characteristics

#### 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.

### 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 (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

## 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

### Flame Test

UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4
IEEE Flame Test:	1202

### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Electrical Characteristics (Overall)

Max. Operating Voltage - UL:

<b>Voltage</b>
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	C	COMPOSITE ENG CABLE PVC
1347A B59500	500 FT	108.500 LB	BLACK, MATTE	C	COMPOSITE ENG CABLE PVC

**Notes:**

C = CRATE REEL PUT-UP.

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