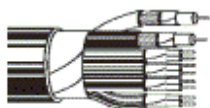


1347A Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information
please call

1-800-Belden1

**General Description:**

Coax (2 - 1505A Type) 20 AWG BC, GIPPE insulation, 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. (mm)
2	20	Solid	BC - Bare Copper	0.864

Insulation**Insulation Material:**

Insulation Material	Dia. (mm)
Gas- injected FPE - Foam Polyethylene	3.683

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
1	Black
2	White

Overall Diameter

Overall Nominal Diameter: 5.918 mm

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/m)
0.351

METRIC MEASUREMENT VERSION

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Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.480

Nominal Velocity of Propagation:

VP (%)
82.000

Nominal Delay:

Delay (ns/m)
4.003

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
32.810

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
12.468

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/100m)
1.000	0.984
3.600	1.969
5.000	2.067
7.000	2.428
10.000	2.953
67.500	6.726
71.500	6.890
88.500	7.218
100.000	7.546
135.000	8.859
143.000	9.187
180.000	10.171
270.000	12.468
360.000	14.436
540.000	18.046
720.000	20.998
750.000	21.327
1000.000	24.936
1500.000	30.513
2000.000	35.763
2250.000	38.060
3000.000	43.965
4500.000	53.808

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

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Insulation**Insulation Material:**

Insulation Material Dia. (mm)	
PP - Polypropylene	1.168

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 (mm)
PVC - Polyvinyl Chloride	0.508

Outer Jacket Color Code Chart:

Number	Color
1	Brown
2	Red
3	Orange
4	Yellow

Overall Diameter

Overall Nominal Diameter: 3.429 mm

Electrical Characteristics**Input/Unfitted Impedance:**

Impedance (Ohm)
45.000

Nom. Inductance:

Inductance (µH/m)
0.558

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
114.835

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
219.827

Nominal Velocity of Propagation:

VP (%)
66.000

Nominal Delay:

Delay (ns/m)
4.922

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
14.100

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
46.918

Max. Operating Voltage - UL:

Voltage
300 V RMS

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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: 16.256 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

Bulk Cable Weight: 282.758 Kg/Km

Max. Recommended Pulling Tension: 947.467 N

Min. Bend Radius/Minor Axis: 165.100 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

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

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	C	COMPOSITE ENG CABLE PVC

METRIC MEASUREMENT VERSION

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

1347A B59500	500 FT	108.500 LB	BLACK, MATTE	C	COMPOSITE ENG CABLE PVC
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Notes:

C = CRATE REEL PUT-UP.

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