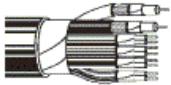


1347A Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information
please call

1-800-Belden1



General Description:

Coax (2 - 1505A Type) 20 AWG BC, GIFPE insulation, 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.)
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 (%)
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: 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

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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:

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

Notes:

C = CRATE REEL PUT-UP.

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