
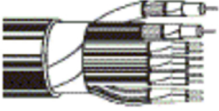


Product: [1347A](#) 



Composite Data, Audio, Video, Security and Control

Product Description

Composites, 2 Coax 20 AWG BC, GIFPE insulation, TC braid 95% coverage, overall foil tape and 4 PR 22 AWG TC, PP insulation, bonded foil tape plus drain wire, overall CMR rating and PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	Electronic News Gathering (ENG), Electronic Field Production (EFP), Analog Audio + Digital Video Composite Applications, 2V + 4A
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs	No. of Coax
20	Solid	BC - Bare Copper	0.034 in		2
22		BC - Bare Copper	0.0285 in	4	

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.145 in
PP - Polypropylene	0.046 in

Table Notes:	Gas Injected
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Color Chart

Number	Color
1	Black
2	White
1	Brown
2	Red
3	Orange
4	Yellow

Inner Jacket Material

Element	Nominal Diameter
Coax	0.233 in
Pair	0.135 in

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG	Drainwire Construction n x D
Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%	TC - Tinned Copper	0.030 in	22	7x30
Braid	Tinned Copper (TC)		95%				
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%				
	No Shield						

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.640 in

PVC - Polyvinyl Chloride	
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Electrical Characteristics

Conductor DCR

Element	Max. Conductor DCR	Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR	Nominal Outer Shield DCR	Outer Conductor DCR
Coax(es)	141 Ohm/km	10 Ohm/1000ft	10 Ohm/1000ft			3.8 Ohm/1000ft
				14.3 Ohm/1000ft	14.3 Ohm/1000ft	

Capacitance

Element	Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield	Nom. Capacitance Conductor to Shield
Coax	35 pF/ft	67 pF/ft	16.3 pF/ft
Pair	35 pF/ft	67 pF/ft	

Operating Voltage: 300 V RMS

Inductance

Element	Nominal Inductance
Coax	0.107 μ H/ft
Pair	0.17 μ H/ft

Impedance

Element	Nominal Characteristic Impedance
Coax	75 Ohm
	45 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5-850 MHz	20 dB
850-4500 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
3.6 MHz	0.6 dB/100ft
5 MHz	0.63 dB/100ft
7 MHz	0.74 dB/100ft
10 MHz	0.9 dB/100ft
67.5 MHz	2.05 dB/100ft
71.5 MHz	2.1 dB/100ft
88.5 MHz	2.2 dB/100ft
100 MHz	2.3 dB/100ft
135 MHz	2.7 dB/100ft
143 MHz	2.8 dB/100ft
180 MHz	3.1 dB/100ft
270 MHz	3.8 dB/100ft
360 MHz	4.4 dB/100ft
540 MHz	5.5 dB/100ft
720 MHz	6.4 dB/100ft
750 MHz	6.5 dB/100ft
1000 MHz	7.6 dB/100ft
1500 MHz	9.3 dB/100ft
2000 MHz	10.9 dB/100ft
2250 MHz	11.6 dB/100ft
3000 MHz	13.4 dB/100ft
4500 MHz	16.4 dB/100ft

Delay

Nominal Delay
1.22 ns/ft
1.5 ns/ft

High Freq

Max./Min. Input Impedance (unFitted)
45 Ohm

Current

Element	Max. Recommended Current [A]
Coax	2.9 Amps per Conductor at 25°C
Pair	

Voltage

UL Voltage Rating
300 V RMS
300 V RMS

Temperature Range

Operating Temp Range:	-20°C To +60°C
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Mechanical Characteristics

Bulk Cable Weight:	185 lbs/1000ft
Max. Pull Tension:	213 lbs
Min Bend Radius/Minor Axis:	6.5 in

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
RG Type:	59/U Type

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2006-06-05
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Riser
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
1347A B59500	Black, Matte	Reel	500 ft	612825112358
1347A B591000	Black, Matte	Reel	1,000 ft	612825112341

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.222 Revision Date: 09-30-2020
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