
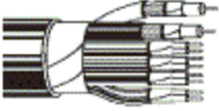


Product: [1347A](#) 



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	
PVC - Polyvinyl Chloride	

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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