



Part Number: 1506A

Serial Digital Coax, RG59, 20 AWG Solid BC, Duofoil® + 95% TC Braid, CMP

Product Description

Low Loss Serial Digital Coax, Plenum-CMP, RG59 20 AWG solid bare copper conductor, foam FEP core, Duofoil®+95% tinned copper braid, Flamarrest® jacket

Technical Specifications

Product Overview

Environmental Space:	Indoor - Plenum

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BC - Bare Copper	0.032 in	1
Condu	ictor Count:		1	

Insulation

Material	Material Trade Name	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	Teflon®	0.133 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
PVC - Polyvinyl Chloride	Flamarrest®	0.196 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
10 Ohm/1000ft	3.2 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield 16.1 pF/ft

Inductance

Nominal Inductance 0.097 μH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

High Frequency (Nominal/Typical)

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Frequency [MHz]	Nom. Insertion Loss		
1 MHz	0.29 dB/100ft		
3.58 MHz	0.62 dB/100ft		
5 MHz	0.7 dB/100ft		
7 MHz	0.82 dB/100ft		
10 MHz	1.05 dB/100ft		
67.5 MHz	2.2 dB/100ft		
71.5 MHz	2.25 dB/100ft		
100 MHz	2.7 dB/100ft		
135 MHz	3.2 dB/100ft		
143 MHz	3.25 dB/100ft		
180 MHz	3.65 dB/100ft		
270 MHz	4.55 dB/100ft		
360 MHz	5.25 dB/100ft		
540 MHz	6.4 dB/100ft		
720 MHz	7.3 dB/100ft		
750 MHz	7.5 dB/100ft		
1000 MHz	9.4 dB/100ft		
1500 MHz	11.3 dB/100ft		
2250 MHz	14.4 dB/100ft		
3000 MHz	17.2 dB/100ft		
4500 MHz	21.8 dB/100ft		
6000 MHz	25.9 dB/100ft		

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.21 ns/ft	84 %

Voltage

UL Voltage Rating 300 V RMS

Electrical Characteristics Notes: Return Loss: Fixed bridge and termination

Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-20°C To +75°C

Mechanical Characteristics

UV Resistance:	No
Bulk Cable Weight:	29 lbs/1000ft
Max Recommended Pulling Tension:	68 lbs
Min Bend Radius/Minor Axis:	2 in

Standards

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
CPR Euroclass:	Eca
RG Type:	59/U Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)

EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Sunlight Resistance:	No

Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes

Part Number

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Variants

Item #	Color	UPC	Length	Footnote
1506A 0101000	Black	612825116653	1,000 ft	С
1506A 010500	Black	612825116660	500 ft	CZ
1506A 0105000	Black	612825435877	5,000 ft	
1506A 0061000	Blue, Light	612825116622	1,000 ft	CZ
1506A 0065000	Blue, Light	612825435914	5,000 ft	
1506A 0011000	Brown	612825116585	1,000 ft	CZ
1506A 0081000	Gray	612825116646	1,000 ft	Z
1506A 0085000	Gray	612825435938	5,000 ft	
1506A N3U1000	Green, Mil	612825116578	1,000 ft	CZ
1506A 8771000	Natural	612825116677	1,000 ft	С
1506A 877500	Natural	612825116684	500 ft	CZ
1506A 8775000	Natural	612825435884	5,000 ft	
1506A 0031000	Orange	612825116608	1,000 ft	Z
1506A 0021000	Red	612825116592	1,000 ft	CZ
1506A 0025000	Red	612825435891	5,000 ft	
1506A 0071000	Violet	612825116639	1,000 ft	CZ
1506A 0075000	Violet	612825435921	5,000 ft	
1506A 0095000	White	612825435945	5,000 ft	
1506A 0041000	Yellow	612825116615	1,000 ft	Z
1506A 0045000	Yellow	612825435907	5,000 ft	

Footnote:	C - CRATE REEL PUT-UP.	
Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.	

Product Notes

Notes:	Print legend includes sequential footage marks.

History

Update and Revision:	Revision Number: 0.295 Revision Date: 08-22-2019	
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