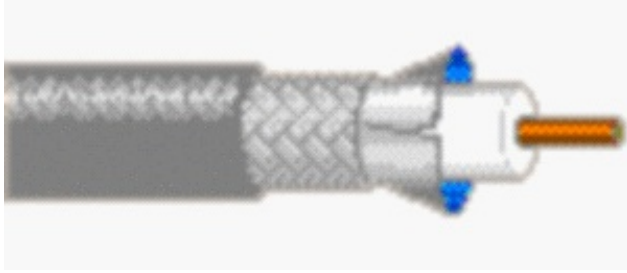


Part Number: 1506A

Serial Digital Coax, RG59, #20 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

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BC - Bare Copper	0.032 in	1
Total Number of Conductors:			1	

Insulation:

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

Outershield 1:

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

Outerjacket 1:

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

Other Electrical Characteristic 1:	Impedance tested in accordance with ASTM D-4566 paragraph 48.2, option 2 using a 75 Ohm fixed bridge and termination.
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Other Electrical Characteristic 2:	Return Loss tested in accordance with ASTM D-4566 paragraph 50.3, using a 75 Ohm fixed bridge and termination.
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Sweep Testing:	100% Sweep tested 5 MHz to 3 GHz.
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Impedance:

Nominal Characteristic Impedance
75 Ohm

High Frequency (Nominal/Typical):

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	12.8 dB/100ft
2250 MHz	17.5 dB/100ft
3000 MHz	21.9 dB/100ft

Delay:

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

High Freq:

Min. RL (Return Loss) [dB]
23 dB
21 dB

Inductance:

Nominal Inductance
0.097 μ H/ft

Voltage:

UL Voltage Rating
300V RMS V

Use

Suitability - Indoor:	Yes
Max Recommended Pulling Tension:	68 lbs

Safety

CSA Flammability:	FT6
UL Flammability:	NFPA 262

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	2 in
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Part Number

Plenum (Y/N):	Yes
Non-Plenum Number:	1505A

Standards

CA Prop 65 (CJ for Wire & Cable):	Yes
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CEC/C(UL) Specification:	CMP
MII Order #39 (China RoHS):	Yes
NEC/(UL) Specification:	CMP
RG Type:	59/U
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

Product Variants

Part Number	Color	Put-Up Type	Length
1506A	BROWN	Reel	1000 ft
1506A	BROWN	Reel	305 m
1506A 0011000	BROWN	Reel	1000 ft
1506A	RED	Reel	1000 ft
1506A	RED	Reel	305 m
1506A 0021000	RED	Reel	1000 ft
1506A	ORANGE	Reel	1000 ft
1506A	ORANGE	Reel	305 m
1506A 0031000	ORANGE	Reel	1000 ft
1506A	YELLOW	Reel	1000 ft
1506A	YELLOW	Reel	305 m
1506A 0041000	YELLOW	Reel	1000 ft
1506A	BLUE, LIGHT	Reel	1000 ft
1506A	BLUE, LIGHT	Reel	305 m
1506A 0061000	BLUE, LIGHT	Reel	1000 ft
1506A	VIOLET	Reel	1000 ft
1506A	PURPLE	Reel	305 m
1506A 0071000	VIOLET	Reel	1000 ft
1506A	GRAY	Reel	1000 ft
1506A	GRAY	Reel	305 m
1506A 0081000	GRAY	Reel	1000 ft
1506A	BLACK	Reel	1000 ft
1506A	BLACK	Reel	305 m
1506A 0101000	BLACK	Reel	1000 ft
1506A	BLACK	Reel	500 ft
1506A	BLACK	Reel	152 m
1506A 010500	BLACK	Reel	500 ft

1506A	BLACK	Reel	305 m
1506A	NATURAL	Reel	1000 ft
1506A	NATURAL	Reel	305 m
1506A 8771000	NATURAL	Reel	1000 ft
1506A	NATURAL	Reel	500 ft
1506A	NATURAL	Reel	152 m
1506A 877500	NATURAL	Reel	500 ft
1506A	GREEN, MIL	Reel	1000 ft
1506A	MIL GREEN	Reel	305 m
1506A N3U1000	GREEN, MIL	Reel	1000 ft
1506A			

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