



**Part Number: 1505F**

Serial Digital Coax, RG59, Flexible 20 AWG Stranded BC, Double TC Braid, CM PVC Jacket

## Product Description

Low Loss Serial Digital Coax, RG-59/U, CM-Rated, 22 AWG stranded bare compacted copper conductor, foam HDPE core, double 95% tinned copper braid, flexible PVC jacket

## Technical Specifications

### Product Overview

Environmental Space:	Indoor
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### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
22	7x29	BCC - Bare Compacted Copper	0.031 in	1

Total Number of Conductors:	1
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#### Insulation

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.145 in

#### Outer Shield Material

Type	Layer	Material	Coverage [%]
Braid	1	TC - Tinned Copper	95 %
Braid	2	TC - Tinned Copper	95 %

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.242 in

### Electrical Characteristics

#### Capacitance

##### Nom. Capacitance Conductor to Shield

17 pF/ft
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Shielding:	Overall Foil + Braid
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### Construction and Dimensions

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
12.2 Ohm/1000ft	2.4 Ohm/1000ft	2.4 Ohm/1000ft

#### Impedance

##### Nominal Characteristic Impedance

75 Ohm
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## High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.2 dB/100ft
3.6 MHz	0.5 dB/100ft
5 MHz	0.6 dB/100ft
6 MHz	0.67 dB/100ft
7 MHz	0.73 dB/100ft
10 MHz	0.9 dB/100ft
12 MHz	0.98 dB/100ft
25 MHz	1.44 dB/100ft
67.5 MHz	2.4 dB/100ft
71.5 MHz	2.5 dB/100ft
88.5 MHz	2.8 dB/100ft
100 MHz	3 dB/100ft
135 MHz	3.5 dB/100ft
143 MHz	3.6 dB/100ft
180 MHz	4.1 dB/100ft
270 MHz	5.1 dB/100ft
360 MHz	6 dB/100ft
540 MHz	7.5 dB/100ft
720 MHz	8.9 dB/100ft
1000 MHz	10.8 dB/100ft
1500 MHz	13.6 dB/100ft
2000 MHz	16.1 dB/100ft
2250 MHz	17.3 dB/100ft
3000 MHz	20.7 dB/100ft
4500 MHz	26.7 dB/100ft
4500 MHz	28.2 dB/100ft

## Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.3 ns/ft	80 %

## Inductance

Nominal Inductance
0.094 $\mu$ H/ft

## Voltage

UL Voltage Rating
300V RMS

## Applicable Standards & Environmental Programs

CEC/C(UL) Specification:	CM
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 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Standards

NEC/(UL) Specification:	CM
RG Type:	RG-59/U Type

## Flame Test

UL Flammability:	UL1685 UL Loading
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## Safety

UL Voltage Rating:	300 V RMS
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## Suitability

Suitability - Indoor:	Yes
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## Mechanical Characteristics

Operating Temp Range:	-35°C To +75°C
Bulk Cable Weight:	41(lbs/1000ft)
Max Recommended Pulling Tension:	88(lbs)
Min Bend Radius/Minor Axis:	2.5(in)

## Temperature Range

UL Temp Rating:	75°C
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## History

## Variants

Item #	Color
1505F B591000	BLACK, MATTE
1505F G7X1000	BLUE, MATTE
1505F G7W1000	GREEN, MATTE
1505F G8L1000	ORANGE, MATTE
1505F G7V1000	RED, MATTE
1505F Z4B1000	VIOLET Z4B
1505F G7Y1000	WHITE, MATTE
1505F 0041000	YELLOW

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