



Product: <u>1505F</u> ☑

Serial Digital Coax, RG59, Flexible 22 AWG Stranded BC, Double TC Braid, **CM PVC Jacket**

Product Description

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

Technical Specifications

Physical Characteristics (Overall)

Conductor AWG Stranding Material Nominal Diameter No. of Coax 7x29 BC-C - Bare Copper (Compacted) 0.032 in Conductor Count: Insulation Material **Nominal Diameter** PE - Polyethylene (Foam) 0.145 in Gas Injected Insulation, Table Note: **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

Conductor DCR

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

Capacitance



Inductance



Impedance

Nominal Characteristic Impedance 75 Ohm

Return Loss (RL)

Frequency [MHz] Minimum Return (RL)

5 - 850 MHz	20 dB
850 - 6000 MHz	15 dB

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
55 MHz	2.2 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
750 MHz	9.1 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
6000 MHz	32.2 dB/100ft

Delay

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

Voltage

UL Voltage Rating 300 V RMS

Temperature Range

Non-UL Temp Rating:	75°C
UL Temp Rating:	60°C
Operating Temp Range:	-35°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	42 lbs/1000ft
Max Recommended Pulling Tension:	73 lbs
Min Bend Radius/Minor Axis:	2.5 in

Standards

NEC/(UL) Specification:	СМ
CEC/C(UL) Specification:	CM
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 2003/96/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
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes

Flammability, LS0H, Toxicity Testing

	UL Flammability:	UL1685 UL Loading
П	UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
1505F B591000	Black, Matte	Reel	1,000 ft	612825356295
1505F B593000	Black, Matte	Reel	3,000 ft	612825439929
1505F G7X1000	Blue, Matte	Reel	1,000 ft	612825356417
1505F G7X3000	Blue, Matte	Reel	3,000 ft	612825439950
1505F G7W1000	Green, Matte	Reel	1,000 ft	612825358367
1505F G7W3000	Green, Matte	Reel	3,000 ft	612825440000
1505F G8L1000	Orange, Matte	Reel	1,000 ft	612825356509
1505F G8L3000	Orange, Matte	Reel	3,000 ft	612825439967
1505F G7V1000	Red, Matte	Reel	1,000 ft	612825356288
1505F G7V3000	Red, Matte	Reel	3,000 ft	612825439943
1505F Z4B3000	Violet	Reel	3,000 ft	612825439974
1505F Z4B1000	Violet Z4B	Reel	1,000 ft	612825356493
1505F G7Y1000	White, Matte	Reel	1,000 ft	612825356363
1505F 0041000	Yellow	Reel	1,000 ft	612825356486
1505F 0043000	Yellow	Reel	3,000 ft	612825440017

Footnote: C - CRATE REEL PUT-UP

History

Update and Revision:	Revision Number: 0.284 Revision Date: 04-28-2020
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