



**Product:** [1505F](#)

75 Ohm SDI Coax, RG-59, 22 AWG Str BC, Double 95% TC Braid, PVC Jkt, CM, Flexible

**Product Description**

75 Ohm SDI Coax, RG-59, 22 AWG (7x29) Bare Copper Conductor, PE Insulation, Double 95% Tinned Copper Braid Shield, PVC Jacket, CM, Flexible

**Technical Specifications**

**Product Overview**

Suitable Applications:	Digital Video, 6 Gb/s UHDTV, HD-SDI 1080p
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**Construction Details**

RG Type:	59
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**Conductor**

Size	Stranding	Nom. Diameter	Material
22 AWG	7x29	0.032 in	BC-C - Bare Copper (Compacted)

**Insulation**

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	0.145 in (3.68 mm)

**Outer Shield**

Layer	Outer Shield Type	Material	Coverage
1	Braid	Tinned Copper (TC)	95%
2	Braid	Tinned Copper (TC)	95%

**Outer Jacket**

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.242 in (6.15 mm)

Overall Cable Diameter (Nominal):	0.242 in (6.15 mm)
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**Electrical Characteristics**

**Return Loss (RL)**

Frequency	Min. Return Loss
5 - 850 MHz	20 dB
850 - 6000 MHz	15 dB

**Attenuation**

Frequency	Nom. Attenuation
1 MHz	0.2 dB/100ft
3.58 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

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
12.2 Ohm/1000ft (40.0 Ohm/km)	2.4 Ohm/1000ft (7.9 Ohm/km)	17.0 pF/ft (55.8 pF/m)	75 Ohm	80%

Voltage

UL Voltage Rating
300 V (CM)

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C	-35°C to +75°C

Bend Radius

Installation Min.
2.4 in

Max. Pull Tension:	73 lbs (33 kg)
Bulk Cable Weight:	42 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 UL Loading
NEC / UL Compliance:	CM
CEC / C(UL) Compliance:	CM
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.349 Revision Date: 04-08-2022
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Part Numbers

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

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