

# 1505F - 75 Ohm SDI Coax, RG-59, 22 AWG Str BC, Double 95% TC Braid, PVC Jkt, CM, Flexible

Item: 20119450



## Product Overview

### Suitable Applications

Digital Video, 6 Gb/s UHD TV, HD-SDI 1080p

## Construction Details

### RG Type

59

### CONDUCTOR

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

### INSULATION

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

### 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)

## Electrical Characteristics

### RETURN LOSS

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	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 (61 mm)

#### Max. Pull Tension

73 lbs (33 kg)

#### Bulk Cable Weight

42 lbs/1000ft (63 kg/km)

## Standards and Compliance

Environmental Suitability	Indoor (Not Riser or Plenum), Indoor
Sustainability	CA Prop 65
Flammability / Reaction to Fire	UL1685 UL Loading
CPR Compliance	CPR Euroclass: Eca; CPR UKCA Class: Eca
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)
UK Regulation Compliance	UKCA Mark
APAC Compliance	China RoHS II (GB/T 26572-2011)

## History

### Update and Revision

Revision Number: 0.504 Revision Date: 04-24-2023