



**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
------------------------	---

### 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: 0.506 Revision Date: 09-07-2025
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1505F B591000	Black, Matte	Reel	1,000 ft	612825356295	C
1505F B593000	Black, Matte	Reel	3,000 ft	612825439929	
1505F G7X1000	Blue, Matte	Reel	1,000 ft	612825356417	C
1505F G7X3000	Blue, Matte	Reel	3,000 ft	612825439950	

1505F G7W1000	Green, Matte	Reel	1,000 ft	612825358367	C
1505F G7W3000	Green, Matte	Reel	3,000 ft	612825440000	
1505F G8L1000	Orange, Matte	Reel	1,000 ft	612825356509	C
1505F G8L3000	Orange, Matte	Reel	3,000 ft	612825439967	
1505F G7V1000	Red, Matte	Reel	1,000 ft	612825356288	C
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	C
1505F 0041000	Yellow	Reel	1,000 ft	612825356486	C
1505F 0043000	Yellow	Reel	3,000 ft	612825440017	

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.