



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

75 Ohm SDI Coax, RG-59, 20 AWG Solid BC, Foil + 95% TC Braid, PVC Jkt, CMR

### Product Description

75 Ohm SDI Coax, RG-59, 20 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 95% Tinned Copper Braid Shield, PVC Jacket, CMR

### 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
20 AWG	Solid	0.032 in	BC - Bare Copper

#### Insulation

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

#### Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Tinned Copper (TC)		95%

#### Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.233 in (5.92 mm)

Overall Cable Diameter (Nominal):	0.233 in (5.92 mm)
-----------------------------------	--------------------

#### Electrical Characteristics

#### Return Loss (RL)

Frequency	Min. Return Loss
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

#### Attenuation

Frequency	Nom. Attenuation
1 MHz	0.3 dB/100ft
3.58 MHz	0.6 dB/100ft
5 MHz	0.63 dB/100ft
6 MHz	0.69 dB/100ft
7 MHz	0.74 dB/100ft
10 MHz	0.9 dB/100ft
12 MHz	0.91 dB/100ft

25 MHz	1.3 dB/100ft
67.5 MHz	2.05 dB/100ft
71.5 MHz	2.1 dB/100ft
88.5 MHz	2.2 dB/100ft
100 MHz	2.3 dB/100ft
135 MHz	2.7 dB/100ft
143 MHz	2.8 dB/100ft
180 MHz	3.1 dB/100ft
270 MHz	3.8 dB/100ft
360 MHz	4.4 dB/100ft
540 MHz	5.5 dB/100ft
720 MHz	6.4 dB/100ft
750 MHz	6.5 dB/100ft
1000 MHz	7.6 dB/100ft
1500 MHz	9.3 dB/100ft
2000 MHz	10.9 dB/100ft
2250 MHz	11.6 dB/100ft
3000 MHz	13.4 dB/100ft
4500 MHz	17.5 dB/100ft
6000 MHz	21.1 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
10 Ohm/1000ft	3.8 Ohm/1000ft (12 Ohm/km)	16.3 pF/ft (53.5 pF/m)	75 Ohm	82%

#### Voltage

UL Voltage Rating
300 V (CMR, CMG)

## Mechanical Characteristics

#### Temperature

UL Temperature	Operating
60°C	-30°C to +75°C

#### Bend Radius

Installation Min.
2.3 in (58 mm)

Max. Pull Tension:	52 lbs (24 kg)
Bulk Cable Weight:	31 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Indoor, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1666 Vertical Shaft
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	CMR
CEC / C(UL) Compliance:	CMG
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)
Plenum Number:	1506A

## Product Notes

Notes:	Also available in multi-coax bundled versions. See 7794A through 7798A. Print legend includes sequential footage marks.
--------	---

## History

Update and Revision:	Revision Number: 0.530 Revision Date: 04-04-2023
----------------------	--

## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC/EAN	Footnote
1505A.00100	Black	Reel	100 m	8719605197474	
1505A.00152	Black	Reel	152 m	8719605001115	
1505A.00305	Black	Reel	305 m	8719605001139	
1505A 010500	Black	Reel	500 ft	612825358732	C
1505A 0101000	Black	Reel	1,000 ft	612825358282	C
1505A 010N1000	Black	Reel w/Small Barrel	1,000 ft		
1505A.001525	Black	Reel	1,525 m	8719605001122	
1505A 0105000	Black	Reel	5,000 ft	612825356301	C N
1505A 01010000	Black	Reel	10,000 ft	612825440475	
1505A.05152	Blue	Reel	152 m	8719605001245	
1505A.05305	Blue	Reel	305 m	8719605001269	
1505A.051525	Blue	Reel	1,525 m	8719605001252	
1505A 006500	Blue, Light	Reel	500 ft	612825356271	C
1505A 0061000	Blue, Light	Reel	1,000 ft	612825358305	C
1505A 006N1000	Blue, Light	Reel w/Small Barrel	1,000 ft		
1505A 0065000	Blue, Light	Reel	5,000 ft	612825356356	C N
1505A 00610000	Blue, Light	Reel	10,000 ft	612825435822	
1505A 0011000	Brown	Reel	1,000 ft	612825358381	C
1505A 001N1000	Brown	Reel w/Small Barrel	1,000 ft		
1505A 0015000	Brown	Reel	5,000 ft	612825358350	C N
1505A 0081000	Gray	Reel	1,000 ft	612825356332	C
1505A 008N1000	Gray	Reel w/Small Barrel	1,000 ft		
1505A 0085000	Gray	Reel	5,000 ft	612825356325	C N
1505A 00810000	Gray	Reel	10,000 ft	612825435846	
1505A.08305	Gray, Slate	Reel	305 m	8719605001320	
1505A.081525	Gray, Slate	Reel	1,525 m	8719605001313	
1505A.06305	Green	Reel	305 m	8719605001283	
1505A.061525	Green	Reel	1,525 m	8719605001276	
1505A N3U1000	Green, Mil	Reel	1,000 ft	612825358374	C
1505A N3UN1000	Green, Mil	Reel w/Small Barrel	1,000 ft		
1505A N3U5000	Green, Mil	Reel	5,000 ft	612825356516	C N
1505A N3U10000	Green, Mil	Reel	10,000 ft	612825435860	
1505A.03305	Orange	Reel	305 m	8719605001214	
1505A 0031000	Orange	Reel	1,000 ft	612825356394	C
1505A 003N1000	Orange	Reel w/Small Barrel	1,000 ft		
1505A.031525	Orange	Reel	1,525 m	8719605001207	
1505A 0025000	Orange	Reel	5,000 ft	612825358329	C N
1505A 0035000	Orange	Reel	5,000 ft	612825356387	C N
1505A 00310000	Orange	Reel	10,000 ft	612825435808	
1505A.02152	Red	Reel	152 m	8719605001177	
1505A.02305	Red	Reel	305 m	8719605001191	
1505A 002500	Red	Reel	500 ft	612825358336	C
1505A 0021000	Red	Reel	1,000 ft	612825358343	C
1505A 002N1000	Red	Reel w/Small Barrel	1,000 ft		
1505A.021525	Red	Reel	1,525 m	8719605001184	
1505A 00210000	Red	Reel	10,000 ft	612825435792	
1505A.01152	Violet	Reel	152 m	8719605001146	
1505A.01305	Violet	Reel	305 m	8719605001160	
1505A 0071000	Violet	Reel	1,000 ft	612825356400	C
1505A 007N1000	Violet	Reel w/Small Barrel	1,000 ft		
1505A.011525	Violet	Reel	1,525 m	8719605001153	
1505A 0075000	Violet	Reel	5,000 ft	612825356349	C N
1505A 00710000	Violet	Reel	10,000 ft	612825435839	
1505A.07305	White	Reel	305 m	8719605001306	
1505A 0091000	White	Reel	1,000 ft	612825358299	C
1505A 009N1000	White	Reel w/Small Barrel	1,000 ft		
1505A.071525	White	Reel	1,525 m	8719605001290	
1505A 0095000	White	Reel	5,000 ft	612825356318	C N
1505A 00910000	White	Reel	10,000 ft	612825435853	
1505A.04305	Yellow	Reel	305 m	8719605001238	

1505A 0041000	Yellow	Reel	1,000 ft	612825358312	C
1505A 004N1000	Yellow	Reel w/Small Barrel	1,000 ft		
1505A.041525	Yellow	Reel	1,525 m	8719605001221	
1505A 0045000	Yellow	Reel	5,000 ft	612825356370	C N
1505A 00410000	Yellow	Reel	10,000 ft	612825435815	

© 2024 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.