



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
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Construction Details

RG Type:	59
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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)
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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.
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History

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

Variants

Item #	Color	Putup Type	Length	UPC/EAN	Footnote
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	

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