



**Product:** [1506A](#)

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

### Product Description

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

### 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
FEP - Fluorinated Ethylene Propylene (Foam)	0.133 in (3.38 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	0.196 in (4.98 mm)

Overall Cable Diameter (Nominal):	0.196 in (4.98 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	0.29 dB/100ft
3.58 MHz	0.62 dB/100ft
5 MHz	0.7 dB/100ft
7 MHz	0.82 dB/100ft
10 MHz	1.05 dB/100ft
67.5 MHz	2.2 dB/100ft
71.5 MHz	2.25 dB/100ft

100 MHz	2.7 dB/100ft
135 MHz	3.2 dB/100ft
143 MHz	3.25 dB/100ft
180 MHz	3.65 dB/100ft
270 MHz	4.55 dB/100ft
360 MHz	5.25 dB/100ft
540 MHz	6.4 dB/100ft
720 MHz	7.3 dB/100ft
750 MHz	7.5 dB/100ft
1000 MHz	9.4 dB/100ft
1500 MHz	11.3 dB/100ft
2250 MHz	17.50 dB/100ft
3000 MHz	21.90 dB/100ft
4500 MHz	21.8 dB/100ft
6000 MHz	25.9 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	3.2 Ohm/1000ft (10 Ohm/km)	16.1 pF/ft (52.8 pF/m)	75 Ohm	84%

#### Voltage

UL Voltage Rating
300 V (CMP)

## Mechanical Characteristics

#### Temperature

UL Temperature	Operating
75°C	0°C to +75°C

#### Bend Radius

Installation Min.
2 in (51 mm)

Max. Pull Tension:	52 lbs (24 kg)
Bulk Cable Weight:	29 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CMP
CEC / C(UL) Compliance:	CMP
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)
Non-Plenum Number:	1505A

## History

Update and Revision:	Revision Number: 0.527 Revision Date: 04-24-2023
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## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC
1506A 010500	Black	Reel	500 ft	612825116660
1506A 0101000	Black	Reel	1,000 ft	612825116653
1506A 0105000	Black	Reel	5,000 ft	612825435877
1506A 0061000	Blue, Light	Reel	1,000 ft	612825116622
1506A 0065000	Blue, Light	Reel	5,000 ft	612825435914
1506A 0011000	Brown	Reel	1,000 ft	612825116585
1506A 0081000	Gray	Reel	1,000 ft	612825116646

1506A 0085000	Gray	Reel	5,000 ft	612825435938
1506A N3U1000	Green, Mil	Reel	1,000 ft	612825116578
1506A 877500	Natural	Reel	500 ft	612825116684
1506A 8771000	Natural	Reel	1,000 ft	612825116677
1506A 8775000	Natural	Reel	5,000 ft	612825435884
1506A 0031000	Orange	Reel	1,000 ft	612825116608
1506A 0021000	Red	Reel	1,000 ft	612825116592
1506A 0025000	Red	Reel	5,000 ft	612825435891
1506A 0071000	Violet	Reel	1,000 ft	612825116639
1506A 0075000	Violet	Reel	5,000 ft	612825435921
1506A 0095000	White	Reel	5,000 ft	612825435945
1506A 0041000	Yellow	Reel	1,000 ft	612825116615
1506A 0045000	Yellow	Reel	5,000 ft	612825435907

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