



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: 0.528 Revision Date: 04-29-2024
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Part Numbers

Variants

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

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

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