



**Product:** [1695A](#)

75 Ohm SDI Coax, RG-6, 18 AWG Solid BC, Foil + 95% TC Braid, PVC Jkt, CMP

### Product Description

75 Ohm SDI Coax, RG-6, 18 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:	6
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#### Conductor

Size	Stranding	Nom. Diameter	Material
18 AWG	Solid	0.040 in	BC - Bare Copper

#### Insulation

Material	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene (Foam)	0.170 in (4.32 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	0.229 in (5.82 mm)

Overall Cable Diameter (Nominal):	0.229 in (5.82 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	0.24 dB/100ft
3.58 MHz	0.45 dB/100ft
5 MHz	0.55 dB/100ft
7 MHz	0.65 dB/100ft
10 MHz	0.75 dB/100ft
67.5 MHz	1.74 dB/100ft
71.5 MHz	1.78 dB/100ft

88.5 MHz	1.94 dB/100ft
100 MHz	2.1 dB/100ft
135 MHz	2.4 dB/100ft
143 MHz	2.5 dB/100ft
180 MHz	2.8 dB/100ft
270 MHz	3.4 dB/100ft
360 MHz	4.0 dB/100ft
540 MHz	5.2 dB/100ft
720 MHz	6.1 dB/100ft
750 MHz	6.2 dB/100ft
1000 MHz	7.4 dB/100ft
1500 MHz	9.5 dB/100ft
2000 MHz	11.3 dB/100ft
2250 MHz	12.2 dB/100ft
3000 MHz	14.6 dB/100ft
4500 MHz	18.6 dB/100ft
6000 MHz	22.4 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
6.4 Ohm/1000ft	2.8 Ohm/1000ft (9.2 Ohm/km)	16.2 pF/ft (53.1 pF/m)	75 Ohm	83%

#### Voltage

UL Voltage Rating
300 V (CMP)

## Mechanical Characteristics

#### Temperature

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

#### Bend Radius

Installation Min.
2.3 in (58 mm)

Max. Pull Tension:	92 lbs (42 kg)
Bulk Cable Weight:	41 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; CPR UKCA Class: 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:	1694A

## History

Update and Revision:	Revision Number: 0.517 Revision Date: 04-24-2023
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## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1695A 010500	Black	Reel	500 ft	612825121206	C
1695A 010Z500	Black	ReelTuff Box	500 ft	612825434603	
1695A 0101000	Black	Reel	1,000 ft	612825121190	C
1695A 010Z1000	Black	ReelTuff Box	1,000 ft	612825434504	
1695A 0105000	Black	Reel	5,000 ft	612825121213	C

1695A 01010000	Black	Reel	10,000 ft	612825435662	
1695A 006500	Blue, Light	Reel	500 ft	612825352938	
1695A 0061000	Blue, Light	Reel	1,000 ft	612825121169	C
1695A 006Z1000	Blue, Light	ReelTuff Box	1,000 ft	612825434474	
1695A 00610000	Blue, Light	Reel	10,000 ft	612825435716	
1695A 0011000	Brown	Reel	1,000 ft	612825121121	C
1695A 00110000	Brown	Reel	10,000 ft	612825435679	
1695A 0081000	Gray	Reel	1,000 ft	612825121183	C
1695A 00810000	Gray	Reel	10,000 ft	612825435747	
1695A N3U1000	Green, Mil	Reel	1,000 ft	612825121114	C
1695A N3U10000	Green, Mil	Reel	10,000 ft	612825435761	
1695A 877500	Natural	Reel	500 ft	612825121237	Z
1695A 8771000	Natural	Reel	1,000 ft	612825121220	C
1695A 877Z1000	Natural	ReelTuff Box	1,000 ft	612825434511	
1695A 87710000	Natural	Reel	10,000 ft	612825435754	
1695A 0031000	Orange	Reel	1,000 ft	612825121145	C
1695A 003Z1000	Orange	ReelTuff Box	1,000 ft	612825434450	
1695A 00310000	Orange	Reel	10,000 ft	612825435693	
1695A 0021000	Red	Reel	1,000 ft	612825121138	C
1695A 002Z1000	Red	ReelTuff Box	1,000 ft	612825434429	
1695A 00210000	Red	Reel	10,000 ft	612825435686	
1695A 0071000	Violet	Reel	1,000 ft	612825121176	C
1695A 007Z1000	Violet	ReelTuff Box	1,000 ft	612825434481	
1695A 0075000	Violet	Reel	5,000 ft	612825353195	
1695A 00710000	Violet	Reel	10,000 ft	612825435730	
1695A 0041000	Yellow	Reel	1,000 ft	612825121152	C
1695A 004Z1000	Yellow	ReelTuff Box	1,000 ft	612825434467	
1695A 00410000	Yellow	Reel	10,000 ft	612825435709	

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