



**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
FEP - Fluorinated Ethylene Propylene (Foam)	0.170 in (4.32 mm)

**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 (21 Ohm/km)	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

Max. Pull Tension:	69 lbs (31 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, FT6
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	1694A

### History

Update and Revision:	Revision Number: 0.362 Revision Date: 04-08-2022
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### Part Numbers

#### Variants

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

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
1695A 00110000	Brown	Reel	10,000 ft	612825435679
1695A 0081000	Gray	Reel	1,000 ft	612825121183
1695A 00810000	Gray	Reel	10,000 ft	612825435747
1695A N3U1000	Green, Mil	Reel	1,000 ft	612825121114
1695A N3U10000	Green, Mil	Reel	10,000 ft	612825435761
1695A 877500	Natural	Reel	500 ft	612825121237
1695A 8771000	Natural	Reel	1,000 ft	612825121220
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
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
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
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
1695A 004Z1000	Yellow	ReelTuff Box	1,000 ft	612825434467
1695A 00410000	Yellow	Reel	10,000 ft	612825435709

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