


**Product:** [1794A](#) 

75 Ohm SDI Coax, Series 7, 16 AWG, Solid BC, Tri-Shield, PVC Jkt, CMR



## Product Description

75 Ohm SDI Coax, Series 7, 16 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 95% TC Braid + Foil 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

Series Type:	7
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#### Conductor

AWG	Stranding	Nom. Diameter	Material
16	Solid	0.051 in	BC - Bare Copper

#### Insulation

Material	Nom. Diameter
PE - Polyethylene (Foam)	0.225 in

#### Outer Shield Material

Layer	Outer Shield Type	Material	Material Trade Name	Coverage	Notes
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%	
2	Braid	Tinned Copper (TC)		95%	
3	Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	95%	With Shorting Fold and Bonded to inside of jacket for easy preparation

#### Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.320 in

### Electrical Characteristics

#### Return Loss (RL)

Frequency [MHz]	Min. Return Loss [dB]
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

#### Attenuation

Frequency	Nom. Attenuation [dB/100ft]
1 MHz	0.17 dB/100ft
3.58 MHz	0.30 dB/100ft
5 MHz	0.35 dB/100ft
6 MHz	0.38 dB/100ft
7 MHz	0.40 dB/100ft
10 MHz	0.48 dB/100ft
12 MHz	0.52 dB/100ft

25 MHz	0.74 dB/100ft
55 MHz	1.08 dB/100ft
67.5 MHz	1.20 dB/100ft
71.5 MHz	1.24 dB/100ft
88.5 MHz	1.37 dB/100ft
100 MHz	1.46 dB/100ft
135 MHz	1.70 dB/100ft
143 MHz	1.75 dB/100ft
180 MHz	1.97 dB/100ft
270 MHz	2.43 dB/100ft
360 MHz	2.83 dB/100ft
540 MHz	3.60 dB/100ft
720 MHz	4.20 dB/100ft
750 MHz	4.30 dB/100ft
1000 MHz	5.00 dB/100ft
1500 MHz	6.20 dB/100ft
2000 MHz	7.40 dB/100ft
2250 MHz	7.80 dB/100ft
3000 MHz	9.20 dB/100ft
4500 MHz	11.70 dB/100ft
6000 MHz	13.77 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedance
4.0 Ohm/1000ft	1.9 Ohm/1000ft	16.1 pF/ft	75 Ohm

#### Voltage

UL Voltage Rating
300 V (CMR, CMG)

## Mechanical Characteristics

#### Temperature

UL Rating	Operating
60°C	-20°C to +75°C

#### Bend Radius

Installation Min.
3.2 in

Bulk Cable Weight:	59 lbs/1000ft
Max. Pull Tension:	111 lbs

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, UV Resistance
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1666 Vertical Shaft, FT4
NEC / UL Compliance:	CMR
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## Product Notes

Notes:	Also available in multi-coax bundled version 2177A. Print legend includes sequential footage marks.
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## History

Update and Revision:	Revision Number: 0.316 Revision Date: 08-31-2020
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