


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

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

Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	0.225 in (5.72 mm)

Outer Shield

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®	100%	With Shorting Fold and Bonded to inside of jacket for easy preparation

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.320 in (8.13 mm)

Overall Cable Diameter (Nominal):	0.320 in (8.13 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	0.17 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. Characteristic Impedance	Nom. Velocity of Prop.
4.0 Ohm/1000ft (13 Ohm/km)	1.9 Ohm/1000ft (6.2 Ohm/km)	16.1 pF/ft (52.8 pF/m)	75 Ohm	84%

Voltage

UL Voltage Rating
300 V (CMR, CMG)

Mechanical Characteristics

Temperature

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

Bend Radius

Installation Min.
3.2 in (81 mm)

Max. Pull Tension:	111 lbs (50.3 kg)
Bulk Cable Weight:	59 lbs/1000ft (88 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, UV Resistance, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1666 Vertical Shaft, FT4
NEC / UL Compliance:	CMR
CEC / C(UL) Compliance:	CMG
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)

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: 0.394 Revision Date: 04-08-2022
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
1794A 0101000	Black	Reel	1,000 ft	612825357582

1794A 010N1000	Black	Reel w/Small Barrel	1,000 ft	
1794A 0102500	Black	Reel	2,500 ft	612825438212
1794A 0061000	Blue, Light	Reel	1,000 ft	612825358619
1794A 0011000	Brown	Reel	1,000 ft	612825357513
1794A 0081000	Gray	Reel	1,000 ft	612825357568
1794A N3U1000	Green, Mil	Reel	1,000 ft	612825357506
1794A 0031000	Orange	Reel	1,000 ft	612825357537
1794A 0021000	Red	Reel	1,000 ft	612825357520
1794A 0071000	Violet	Reel	1,000 ft	612825357551
1794A 0091000	White	Reel	1,000 ft	612825357575
1794A 0041000	Yellow	Reel	1,000 ft	612825357544

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