



**Product:** [1694A](#)

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

## Product Description

75 Ohm SDI Coax, RG-6, 18 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 95% Tinned Copper Braid Shield, PVC Jacket, CMR

## Technical Specifications

### Product Overview

Suitable Applications:	Digital Video, 6 Gb/s UHDTV, HD-SDI 1080p
------------------------	---

### Construction Details

RG Type:	6
----------	---

#### Conductor

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

#### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.180 in (4.57 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	0.274 in (6.96 mm)

Overall Cable Diameter (Nominal):	0.274 in (6.96 mm)
-----------------------------------	--------------------

### 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	0.44 dB/100ft
5 MHz	0.52 dB/100ft
6 MHz	0.57 dB/100ft
7 MHz	0.61 dB/100ft
10 MHz	0.71 dB/100ft
12 MHz	0.78 dB/100ft

25 MHz	1.08 dB/100ft
67.5 MHz	1.65 dB/100ft
71.5 MHz	1.69 dB/100ft
88.5 MHz	1.86 dB/100ft
100 MHz	1.95 dB/100ft
135 MHz	2.24 dB/100ft
143 MHz	2.3 dB/100ft
180 MHz	2.57 dB/100ft
270 MHz	3.17 dB/100ft
360 MHz	3.69 dB/100ft
540 MHz	4.5 dB/100ft
720 MHz	5.3 dB/100ft
750 MHz	5.4 dB/100ft
1000 MHz	6.3 dB/100ft
1500 MHz	7.8 dB/100ft
2000 MHz	9.2 dB/100ft
2250 MHz	9.8 dB/100ft
3000 MHz	11.5 dB/100ft
4500 MHz	14.5 dB/100ft
6000 MHz	17.7 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	3.8 Ohm/1000ft (12 Ohm/km)	16.2 pF/ft (53.1 pF/m)	75 Ohm	82%

#### Voltage

UL Voltage Rating
300 V (CMR, CMG)

## Mechanical Characteristics

#### Temperature

UL Temperature	Operating
60°C	-30°C to +75°C

#### Bend Radius

Installation Min.
2.75 in (69.9 mm)

Max. Pull Tension:	69 lbs (31 kg)
Bulk Cable Weight:	41 lbs/1000ft

## 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
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	1695A

## Product Notes

Notes:	Also available in multi-coax bundled versions. See 7710A through 7713A. Print legend includes sequential footage marks.
--------	---

## History

Update and Revision:	Revision Number: 0.586 Revision Date: 07-03-2023
----------------------	--

## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC/EAN	Footnote
1694A.00152	Black	Reel	152 m	8719605003317	
1694A.00305	Black	Reel	305 m	8719605003324	
1694A 010500	Black	Reel	500 ft	612825358169	C
1694A 010Z500	Black	ReelTuff Box	500 ft	612825434726	
1694A.00500	Black	Reel	500 m	8719605003331	
1694A 0101000	Black	Reel	1,000 ft	612825358190	C
1694A 010N1000	Black	Reel w/Small Barrel	1,000 ft		
1694A 010Z1000	Black	ReelTuff Box	1,000 ft	612825434702	
1694A.001000	Black	Reel	1,000 m	8719605003294	
1694A.001372	Black	Reel	1,372 m	8719605003300	
1694A 0105000	Black	Reel	5,000 ft	612825358183	C N
1694A 01010000	Black	Reel	10,000 ft	612825435631	
1694A.05305	Blue	Reel	305 m	8719605003447	
1694A.051372	Blue	Reel	1,372 m	8719605003430	
1694A 0061000	Blue, Light	Reel	1,000 ft	612825358220	C
1694A 006Z1000	Blue, Light	ReelTuff Box	1,000 ft	612825434597	
1694A 0065000	Blue, Light	Reel	5,000 ft	612825356189	C N
1694A 00610000	Blue, Light	Reel	10,000 ft	612825440352	
1694A 0011000	Brown	Reel	1,000 ft	612825358268	C
1694A 0015000	Brown	Reel	5,000 ft	612825356240	C N
1694A 00110000	Brown	Reel	10,000 ft	612825440369	
1694A.09500	Cream	Reel	500 m	8719605003546	
1694A 0081000	Gray	Reel	1,000 ft	612825356165	C
1694A 0085000	Gray	Reel	5,000 ft	612825356158	C N
1694A 00810000	Gray	Reel	10,000 ft	612825435617	
1694A.08305	Gray, Slate	Reel	305 m	8719605003539	
1694A.081372	Gray, Slate	Reel	1,372 m	8719605003522	
1694A.06152	Green	Reel	152 m	8719605003478	
1694A.06305	Green	Reel	305 m	8719605003485	
1694A.061219	Green	Reel	1,219 m	8719605003454	
1694A.061372	Green	Reel	1,372 m	8719605003461	
1694A.064000	Green	Reel	4,000 m	8719605003492	
1694A N3U1000	Green, Mil	Reel	1,000 ft	612825358275	C
1694A N3UN1000	Green, Mil	Reel w/Small Barrel	1,000 ft		
1694A N3U5000	Green, Mil	Reel	5,000 ft	612825356257	C N
1694A N3U10000	Green, Mil	Reel	10,000 ft	612825435648	
1694A.03305	Orange	Reel	305 m	8719605003409	
1694A 0031000	Orange	Reel	1,000 ft	612825358251	C
1694A 003Z1000	Orange	ReelTuff Box	1,000 ft	612825434535	
1694A.031372	Orange	Reel	1,372 m	8719605003393	
1694A 00310000	Orange	Reel	10,000 ft	612825435655	
1694A.01305	Red	Reel	305 m	8719605003355	
1694A 0021000	Red	Reel	1,000 ft	612825358244	C
1694A 002Z1000	Red	ReelTuff Box	1,000 ft	612825434443	
1694A.011372	Red	Reel	1,372 m	8719605003348	
1694A 0025000	Red	Reel	5,000 ft	612825356264	C N
1694A 00210000	Red	Reel	10,000 ft	612825440376	
1694A.02305	Violet	Reel	305 m	8719605003386	
1694A 0071000	Violet	Reel	1,000 ft	612825358213	C
1694A 007N1000	Violet	Reel w/Small Barrel	1,000 ft	612825366966	
1694A 007Z1000	Violet	ReelTuff Box	1,000 ft	612825434665	
1694A.021000	Violet	Reel	1,000 m	8719605003362	
1694A.021372	Violet	Reel	1,372 m	8719605003379	
1694A 0075000	Violet	Reel	5,000 ft	612825356172	C N
1694A 00710000	Violet	Reel	10,000 ft	612825435303	
1694A.07305	White	Reel	305 m	8719605003515	
1694A 0091000	White	Reel	1,000 ft	612825358206	C
1694A 009N1000	White	Reel w/Small Barrel	1,000 ft		
1694A 009Z1000	White	ReelTuff Box	1,000 ft	612825434672	
1694A.071372	White	Reel	1,372 m	8719605003508	

1694A 00910000	White	Reel	10,000 ft	612825435624	
1694A.04305	Yellow	Reel	305 m	8719605003423	
1694A 0041000	Yellow	Reel	1,000 ft	612825358237	C
1694A 004N1000	Yellow	Reel w/Small Barrel	1,000 ft		
1694A 004Z1000	Yellow	ReelTuff Box	1,000 ft	612825434542	
1694A.041372	Yellow	Reel	1,372 m	8719605003416	
1694A 00410000	Yellow	Reel	10,000 ft	612825440383	

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.