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	

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