

1694A - 75 Ohm SDI Coax, RG-6, 18 AWG, Solid BC, Foil + 95% TC Braid, PVC Jkt, CMR

Item: 20119413



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

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

