



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

## COAX RG6/U FRNC/LSZH-C HDTV PRECISION VIDEO

### Product Description

COAX RG6/U FRNC/LSZH-C HDTV PRECISION VIDEO

### Technical Specifications

#### Product Overview

Environmental Space:	Indoor - Euroclass B2ca
Suitable Applications:	Low loss HDTV/SDI Digital coax used in analog and digital video circuits and high quality applications; The cable is UV-resistant and suitable for indoor and outdoor use

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
18	Solid	BC - Bare Copper	1.02 mm	0.03 mm	1

Conductor Count: 1

##### Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	4.57 mm	0.15 mm

##### Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape	1	Aluminum/Polyester/Aluminum		2 mm		
Braid	2	TC - Tinned Copper	95 %		5.4 mm	5 %

##### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH / FRNC	6.96 mm	0.2 mm

#### Construction and Dimensions

Min Elongation at Breakof Jacket:	125 %
Min Tensile Strength of Jacket:	9 MPa

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
21 Ohm/km	9.2 Ohm/km

##### Capacitance

Nom. Capacitance	Capacitance Tolerance
53 pF/m	2 pF/m

##### Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	3 Ohm

**Return Loss (RL)**

Frequency [MHz]	Minimum Return (RL)
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

**High Frequency (Nominal/Typical)**

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.8 dB/100m
3.6 MHz	1.5 dB/100m
10 MHz	2.4 dB/100m
71.5 MHz	5.6 dB/100m
135 MHz	7.4 dB/100m
270 MHz	10.4 dB/100m
360 MHz	12.1 dB/100m
540 MHz	14.8 dB/100m
720 MHz	17.5 dB/100m
750 MHz	17.9 dB/100m
1000 MHz	20.7 dB/100m
1500 MHz	25.6 dB/100m
2250 MHz	32.2 dB/100m
3000 MHz	37.7 dB/100m
4500 MHz	47.6 dB/100m
6000 MHz	58.1 dB/100m

**Delay**

Nominal Delay	Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
407 ns/ft	82 %	2 %

**Voltage**

Voltage Test Dielectric
2.0 kV DC

**Temperature Range**

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-30°C To +70°C
Operating Temp Range:	-30°C To +70°C

**Mechanical Characteristics**

Max Recommended Pulling Tension:	300 N
Min Bend Radius (W/o Pulling Strength):	70 mm

**Standards**

CPR Euroclass:	B2ca-s1a,d1,a1
CENELEC Compliance:	EN 50117-1
RG Type:	6/U Type

**Applicable Environmental and Other Programs**

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
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**Flammability, LS0H, Toxicity Testing**

ISO/IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Other Flammability:	CEI 20-22-3
LOI of Jacket:	Min. 35 %
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

**Part Number****Variants**

Item #	Color	Length
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1694ANH.001000	Black	1,000 m
1694ANH.001371	Black	1,371 m
1694ANH.00305	Black	305 m
1694ANH.00500	Black	500 m
1694ANH.K01000	Black	1,000 m
1694ANH.06100	Blue	100 m
1694ANH.06500	Blue	500 m
1694ANH.03100	Cream	100 m
1694ANH.03500	Cream	500 m
1694ANH.04100	Gray	100 m
1694ANH.04500	Gray	500 m
1694ANH.04305	Gray	305 m
1694ANH.01100	Green	100 m
1694ANH.011000	Green	1,000 m
1694ANH.011219	Green	1,219 m
1694ANH.01305	Green	305 m
1694ANH.01500	Green	500 m
1694ANH.019999	Green	500 m
1694ANH.05100	Purple	100 m
1694ANH.05500	Purple	500 m
1694ANH.051000	Purple	1,000 m
1694ANH.02100	Turquoise	100 m
1694ANH.02500	Turquoise	500 m
1694ANH.021000	Turquoise	1,000 m
1694ANH.07500	Yellow	500 m

## History

Update and Revision:	Revision Number: 0.171 Revision Date: 01-31-2020
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