



**Part Number:** 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
---------------------------------------	------------

**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
--------	-------	--------

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.014444	Green	1,000 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: 0.163 Revision Date: 08-22-2019
----------------------	--

© 2019 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.