



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

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
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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
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	4.57 mm	0.15 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape	1	Tri-Laminate (Alum+Poly+Alum)	95%	2 mm		
Braid	2	Tinned Copper (TC)	95%		5.4 mm	5%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	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. Pull 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

Environmental Space:	Indoor - Euroclass B2ca
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Other Flammability:	CEI 20-22-3
LOI of Jacket:	Min. 35 %
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	IEC 61034-2

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
1694ANH.00305	Black	Reel	305 m	8719605003591
1694ANH.00500	Black	Reel	500 m	8719605003607
1694ANH.001000	Black	Reel	1,000 m	8719605003577
1694ANH.001371	Black	Reel	1,371 m	8719605003584
1694ANH.06100	Blue	Reel	100 m	8719605003775
1694ANH.06500	Blue	Reel	500 m	8719605003782
1694ANH.03100	Cream	Reel	100 m	8719605003706
1694ANH.03500	Cream	Reel	500 m	8719605003713
1694ANH.04100	Gray	Reel	100 m	8719605003720
1694ANH.04305	Gray	Reel	305 m	8719605154903
1694ANH.04500	Gray	Reel	500 m	8719605003737
1694ANH.01100	Green	Reel	100 m	8719605003614
1694ANH.01305	Green	Reel	305 m	8719605003645
1694ANH.01500	Green	Reel	500 m	8719605003669
1694ANH.011000	Green	Reel	1,000 m	8719605003621
1694ANH.011219	Green	Reel	1,219 m	8719605003638
1694ANH.05100	Purple	Reel	100 m	8719605003744
1694ANH.05500	Purple	Reel	500 m	8719605003768
1694ANH.051000	Purple	Reel	1,000 m	8719605003751
1694ANH.02100	Turquoise	Reel	100 m	8719605003683
1694ANH.02500	Turquoise	Reel	500 m	8719605003690
1694ANH.021000	Turquoise	Reel	1,000 m	8719605180216
1694ANH.07500	Yellow	Reel	500 m	8719605003799

History

Update and Revision:	Revision Number: 0.188 Revision Date: 09-30-2020
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