



Part Number: 70084NH

COAX RG11/U LSZH HDTV PRECISION VIDEO

Product Description

COAX [1.6/7.2] RG11/U LSZH HDTV EASY CONNECT PRO

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Eca
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; Use of 1080p/50 applications

Physical Characteristics (Overall)

Conductor

Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
Solid	BC - Bare Copper	1.63 mm	0.03 mm	1

Conductor Count:	1
Conductor Size:	14 AWG

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	7.11 mm	0.15 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape, bonded to dielectric	1	Aluminum/Polyester/Aluminum		2 mm		
Braid	2	TC - Tinned Copper	80 %		7.95 mm	5 %

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH / FRNC	10.2 mm	0.2 mm

Construction and Dimensions

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

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Shield DCR
8.2 Ohm/km	5.7 Ohm/km

Capacitance

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

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance

75 Ohm	3 Ohm
--------	-------

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.5 dB/100m
10 MHz	1.5 dB/100m
71.5 MHz	3.6 dB/100m
135 MHz	4.8 dB/100m
270 MHz	6.9 dB/100m
360 MHz	8 dB/100m
540 MHz	10 dB/100m
720 MHz	11.7 dB/100m
750 MHz	12 dB/100m
1000 MHz	14.1 dB/100m
1500 MHz	18 dB/100m
2250 MHz	22.6 dB/100m
3000 MHz	26.9 dB/100m
4500 MHz	34.1 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
400 ns/ft	84 %

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB

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:	650 N
Min Bend Radius (W/o Pulling Strength):	100 mm

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117-1 and EN 50290-2-20
RG Type:	11/U Type
Other Specification:	SDTV/HDTV

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2013-06-20
---------------------------------------	------------

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color
70084NH.10500	Black
70084NH.00100	Green
70084NH.001000	Green

70084NH.00500	Green
70084NH.009999	Green
70084NH.01500	Purple

History

Revision Number: 1

© 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.