



Product: [70080NH](#)

COAX MINI RG59/U LSZH HDTV PRECISION VIDEO

Product Description

COAX [0.6/2.8] MINI RG59/U LSZH HDTV EASY CONNECT PRO

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; Use of 1080p/50 applications
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
22	Solid	BC - Bare Copper	0.65 mm	0.02 mm	1

Conductor Count:	1
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	2.9 mm	0.15 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape	1	Alum / Poly / Alum		2 mm		
Braid	2	Tinned Copper (TC)	80%		3.45 mm	5%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen flame retardant	4.45 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
55 Ohm/km	20 Ohm/km

Capacitance

Nom. Capacitance
53 pF/m

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	3 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.7 dB/100m
3.6 MHz	2.5 dB/100m
10 MHz	3.7 dB/100m
71.5 MHz	8.6 dB/100m
135 MHz	11.5 dB/100m
270 MHz	16.1 dB/100m
360 MHz	18.6 dB/100m
540 MHz	22.8 dB/100m
720 MHz	26.4 dB/100m
750 MHz	26.9 dB/100m
1000 MHz	31.3 dB/100m
1500 MHz	38.7 dB/100m
2250 MHz	48 dB/100m
3000 MHz	56.1 dB/100m
4000 MHz	65.7 dB/100m
4500 MHz	70.2 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. Pull Tension:	160 N
Min Bend Radius (W/o Pulling Strength):	45 mm

Standards

CPR Euroclass:	Dca-s2,d1,a1
CENELEC Compliance:	EN 50117-1 and EN 50290-2-20
RG Type:	Mini 59
Other Compliance:	SDTV/HDTV

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca
EU RoHS Compliance Date (yyyy-mm-dd):	2013-06-20

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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
70080NH.10305	Black	Reel	305 m	8719605011046
70080NH.10500	Black	Reel	500 m	8719605011053
70080NH.06305	Blue	Reel	305 m	8719605011022
70080NH.00100	Green	Reel	100 m	8719605010933
70080NH.00305	Green	Reel	305 m	8719605010957
70080NH.00500	Green	Reel	500 m	8719605010964
70080NH.001000	Green	Reel	1,000 m	8719605010940
70080NH.03305	Orange	Reel	305 m	8719605010995
70080NH.03500	Orange	Reel	500 m	8719605011008
70080NH.01500	Purple	Reel	500 m	8719605010971
70080NH.02305	Red	Reel	305 m	8719605010988
70080NH.11500	Turquoise	Reel	500 m	8719605011060
70080NH.09305	White	Reel	305 m	8719605011039
70080NH.04305	Yellow	Reel	305 m	8719605011015

History

Update and Revision:	Revision Number: 0.180 Revision Date: 06-24-2020
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