



Part Number: 70080

COAX MINI RG59/U PVC HDTV PRECISION VIDEO

Product Description

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

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Dca & Eca
Suitable Applications:	Low loss HDTV/SDI Digital coax used in analog and digital video circuits and high quality applications; The cable is suitable for indoor use; Use of 1080p/50 applications

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

Total Number of Conductors: 1

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Foamed Polyethylene	2.9 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	Tinned copper	80 %		3.45 mm	5 %

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	4.45 mm	0.2 mm

Electrical Characteristics

Capacitance

Nom. Capacitance
53 pF/m

Construction and Dimensions

Min Elongation at Break of Jacket:	125(%)
Min Tensile Strength of Jacket:	9(MPa)

Conductor DCR

Max. Conductor DCR	Max. Shield DCR
55 Ohm/km	20 Ohm/km

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 kV DC

Applicable Standards & Environmental Programs

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

Standards

RG Type:	Mini RG-59/U Type
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Flame Test

ISO/IEC Flammability:	IEC 60332-1-2
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Mechanical Characteristics

Storage Temp Range:	-30°C To +70°C
Installation Temp Range:	-5°C To +50°C
Operating Temp Range:	-30°C To +70°C
Max Recommended Pulling Tension:	160(N)
Min Bend Radius (W/o Pulling Strength):	45(mm)

History

Revision Number:	1
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Variants

Item #	Color
70080.00100	BLACK
70080.00500	BLACK
70080.001000	BLACK
70080.02500	GREEN
70080.021000	GREEN
70080.04500	ORANGE
70080.041000	ORANGE
70080.01500	PURPLE

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