



Product: [1855EPU](#)

COAX MINI RG59/U PUR DIGITAL VIDEO

Product Description

COAX [0.6/2.8] MINI RG59/U PUR CLASSICS PRO

Technical Specifications

Product Overview

Suitable Applications:	Low loss HDTV/SDI Digital coax used in critical analog and digital video circuits and high quality applications such as live broadcast in network studios and pre- or post-production facilities.; Cable is suitable for indoor and outdoor use
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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

Table Notes:	Gas Injected
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Outer Shield Material

Type	Layer	Material	Coverage [%]	Nominal Diameter	Foil Min. Overlap	Coverage +/- Tolerance
Tape	1	Tri-Laminate (Alum+Poly+Alum)	90%	3.45 mm	2 mm	
Braid	2	Tinned Copper (TC)	90%			5%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PUR - Polyurethane	4.45 mm	0.2 mm

Table Notes:	According EN 50290-2-20
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Construction and Dimensions

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

Electrical Characteristics

Conductor DCR

Inner Conductor DCR	Outer Conductor DCR
55 Ohm/km	17 Ohm/km

Capacitance

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

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance

75 Ohm	3 Ohm
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Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5-1600	23 dB
1600-4500	21 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.7 dB/100m
3.6 MHz	2.5 dB/100m
5 MHz	2.8 dB/100m
6 MHz	3 dB/100m
7 MHz	3.2 dB/100m
10 MHz	3.7 dB/100m
12 MHz	4 dB/100m
25 MHz	5.4 dB/100m
67.5 MHz	8.3 dB/100m
71.5 MHz	8.6 dB/100m
88.5 MHz	9.5 dB/100m
100 MHz	10 dB/100m
135 MHz	11.5 dB/100m
143 MHz	11.9 dB/100m
180 MHz	13.2 dB/100m
270 MHz	16.1 dB/100m
360 MHz	18.6 dB/100m
54 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
2000 MHz	45 dB/100m
2250 MHz	48 dB/100m
2500 MHz	50.8 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) [%]	Velocity of Propagation Tolerance
400 ns/100m	84%	2%

Screening

Frequency [MHz]	Min. Screening Attenuation
30-1000 MHz	85
1000-2000 MHz	85
2000-3000 MHz	85
3000-4500 MHz	85

Screening Class: B

Transfer Impedance

Frequency [MHz]	Transfer Impedance
5-30	Max. 15 mOhm/m

Voltage

Voltage Rating [V]
75 V DC

Temperature Range

Installation Temp Rating:	-5 °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:	Eca
RG Type:	Mini 59

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
EU RoHS Compliance Date (yyyy-mm-dd):	2015-04-03

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
LOI of Jacket:	35 %

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
1855EPU.00500	Black	Reel	500 m	8719605004482

History

Update and Revision:	Revision Number: 0.125 Revision Date: 09-30-2020
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