



Product: <u>70082</u> ☑

COAX RG6/U PVC HDTV PRECISION VIDEO

Product Description

COAX [1.0/4.6] RG6/U PVC 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

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					

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	Alum / Poly / Alum		2 mm		
Braid	2	Tinned Copper (TC)	80%		5.3 mm	5%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	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

Max. Conductor DCR	Max. Shield DCR
21 Ohm/km	9.7 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	0.8 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	15 dB/100m
720 MHz	17.5 dB/100m
750 MHz	17.9 dB/100m
1000 MHz	21 dB/100m
1500 MHz	26 dB/100m
2250 MHz	32 dB/100m
3000 MHz	38 dB/100m
4500 MHz	48 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
407 ns/ft	82%

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:	300 N
Min Bend Radius (W/o Pulling Strength):	70 mm

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117-1 and EN 50290-2-20
RG Type:	6/U Type
Other Compliance:	SDTV/HDTV

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
EU RoHS Compliance Date (yyyy-mm-dd):	2013-10-22

Flammability, LS0H, Toxicity Testing

EC Flammability:	IEC 60332-1-2

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
70082.00100	Black	Reel	100 m	8719605011275
70082.00500	Black	Reel	500 m	8719605011282
70082.021000	Green	Reel	1,000 m	8719605145239
70082.04500	Orange	Reel	500 m	8719605011299

History

Update and Revision:

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