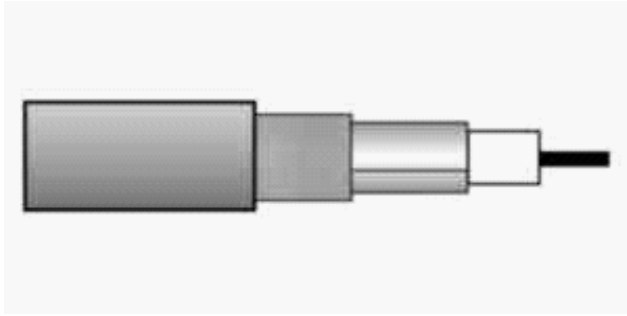


Part Number: 70081.001

COAX RG59/U PVC HDTV PRECISION VIDEO



Product Description

COAX [0.8/3.7] RG59/U PVC HDTV EASY CONNECT PRO

Technical Specifications

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
-------------------------------	---

Construction and Dimensions

Conductor:

Stranding	Material	Nominal Diameter	Diameter +/- Tolerance
Solid	Bare copper	0.81 in	0.03 mm

Insulation:

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Foamed Polyethylene	3.68 mm	0.15 mm

Outershield 1:

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 %		4.4 mm	5 %

Outerjacket 1:

Material	Nominal Diameter	Diameter +/- Tolerance
PVC	5.92 mm	0.2 mm

Min Elongation at Break of Jacket:	125 %
---	-------

Min Tensile Strength of Jacket:	9 MPa
--	-------

Electrical Characteristics

Conductor DCR:

Max. Conductor DCR	Max. Shield DCR
32 Ohm/km	12 Ohm/km

Capacitance:

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

Min Insulation Resistance:	10000 MOhm*km
----------------------------	---------------

Impedance:

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	3 Ohm

High Frequency (Nominal/Typical):

Element	Frequency [MHz]	Nom. Insertion Loss
	1 MHz	1 dB/100m
	3.6 MHz	2 dB/100m
	10 MHz	3 dB/100m
	71.5 MHz	6.9 dB/100m
	135 MHz	8.9 dB/100m
	270 MHz	12.5 dB/100m
	360 MHz	14.4 dB/100m
	540 MHz	18.1 dB/100m
	720 MHz	21 dB/100m
	750 MHz	21.3 dB/100m
	1000 MHz	24.9 dB/100m
	1500 MHz	30.5 dB/100m
	2250 MHz	38 dB/100m
	3000 MHz	44 dB/100m
	4500 MHz	53.8 dB/100m

Max. attenuation 10% higher

Delay:

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
400 ns/ft	83 %

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

Use

Max Recommended Pulling Tension:	200 N
----------------------------------	-------

Safety

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

Temperature Range

Installation Temp Range:	-5 to +50 °C
Operating Temp Range:	-30 to +70 °C
Storage Temp Range:	-30 to +70 °C

Mechanical Characteristics

Min Bend Radius (W/o Pulling Strength):	60 mm
---	-------

Standards

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

History

Revision Number:	1
------------------	---

Product Variants

Part Number	Color	Put-Up Type	Length
70081.00100	BLACK	Reel	100 m
70081.00500	BLACK	Reel	500 m
70081.04500	ORANGE	Reel	500 m
70081.001			

© 2017 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 herein 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 "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.