

Product: [H106T00](#) 

COAX RG59/U TYPE PVC



Product Description

COAX RG59/U TYPE PVC

Technical Specifications

Product Overview

Environmental Space:	Indoor/Outdoor
Suitable Applications:	Coaxial cables used in cabled distribution networks designed according to the European Standard EN 50117; Operating at frequencies between 5 MHz and 860 MHz; The International Standard IEC 1196

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
23	Solid	BC - Bare Copper	0.58 mm	0.015 mm	1

Conductor Count: 1

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	3.7 mm	0.15 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Nominal Diameter	Diameter +/- Tolerance
Braid	1	TC - Tinned Copper	92 %	4.9 mm	0.15 mm
Braid	2	TC - Tinned Copper	92 %	4.9 mm	0.15 mm

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	6 mm	0.2 mm

OuterJacket1, Table Note: According to European Standard HD 624

Construction and Dimensions

Min Elongation at Breakof Jacket:	150 %
Min Tensile Strength of Jacket:	12.5 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR
40 Ohm/km

Capacitance

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

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance

75 Ohm	3 Ohm	Min. 40 dB
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High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	2.4 dB/100m
50 MHz	8 dB/100m
100 MHz	11.6 dB/100m
230 MHz	18.3 dB/100m
300 MHz	21.2 dB/100m
400 MHz	25 dB/100m
470 MHz	27.5 dB/100m
860 MHz	39.2 dB/100m

Delay

Nominal Velocity of Propagation (VP) [%]
66 %

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 30 MHz	20 dB
30 - 470 MHz	20 dB
470 - 862 MHz	18 dB

High Freq Table Note: In each frequency band, 3 peak values up to 4 dB lower are allowed

Voltage

Voltage Test Dielectric
2.0 kV DC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-15°C To +70°C
Operating Temp Range:	-15°C To +70°C

Mechanical Characteristics

Bulk Cable Weight:	58 kg/km
Min Bend Radius (W/o Pulling Strength):	30 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	5-50 N at 25 mm N

Standards

ISO/IEC Compliance:	IEC 1196
CENELEC Compliance:	EN 50117 and EN 50117-1
RG Type:	59/U Type

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01
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Part Number

Variants

Item #	Color	Length
H106T00.00500	Black	500 m
H106T00.00B100	Black	100 m

History

Update and Revision:	Revision Number: 0.151 Revision Date: 01-31-2020
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