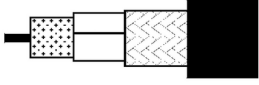


Product: [PRG7C01](#) 

COAX PRG7 CU PE CATV



Product Description

COAX [1.2/5.4] PRG7 CU PE CATV

Technical Specifications

Product Overview

Suitable Applications:	Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117; Operating at frequencies between 5 MHz and 3000 MHz; The International Standard IEC 1196
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
17	Solid	BC - Bare Copper	1.2 mm	0.02 mm	1

Conductor Count: 1

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	5.4 mm	0.2 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Bare Copper (BC)	100%	2 mm			
Braid	2	Bare Copper (BC)	30%		5.84 mm	0.25 mm	4%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene	7.1 mm	0.3 mm

Table Notes: According to European Standard EN 50290-2-20

Construction and Dimensions

Min Elongation at Breakof Jacket:	300 %
Min Tensile Strength of Jacket:	10 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
15.6 Ohm/km	34.6 Ohm/1000ft	19 Ohm/km

Capacitance

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

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance
75 Ohm	3 Ohm	Min. 40 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	1.2 dB/100m
50 MHz	3.6 dB/100m
100 MHz	5.2 dB/100m
200 MHz	7.9 dB/100m
400 MHz	10.5 dB/100m
600 MHz	13 dB/100m
800 MHz	15.2 dB/100m
1000 MHz	17.1 dB/100m
1350 MHz	20.1 dB/100m
1600 MHz	22.1 dB/100m
1750 MHz	23.2 dB/100m
2150 MHz	26 dB/100m
2400 MHz	27.7 dB/100m

Table Notes: Max. attenuation 10% higher

Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
83%	2%

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 30 MHz	23 dB
30 - 470 MHz	23 dB
470 - 1000 MHz	20 dB
1000 - 2000 MHz	18 dB
2000 - 3000 MHz	16 dB

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

Screening

Frequency [MHz]	Min. Screening Attenuation
30 - 1000 MHz	85 dB

Voltage

Voltage Test Dielectric
2.0 kV DC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-40°C To +70°C
Operating Temp Range:	-40°C To +70°C

Mechanical Characteristics

Bulk Cable Weight:	42.1 kg/km
Min Bend Radius (W/o Pulling Strength):	70 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	9.4 - 94 N at 25 mm N

Standards

IEC Compliance:	IEC 1196
CENELEC Compliance:	EN 50117 and EN 50117-1
RG Type:	7/U Type

Applicable Environmental and Other Programs

Environmental Space:	Outdoor
EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
PRG7C01.00250	Black	Reel	250 m	8719605106582
PRG7C01.00500	Black	Reel	500 m	8719605106599
PRG7C01.001000	Black	Reel	1,000 m	8719605106575
PRG7C01.01500	Green	Reel	500 m	8719605106629
PRG7C01.011000	Green	Reel	1,000 m	8719605106612

History

Update and Revision:	Revision Number: 0.176 Revision Date: 12-17-2020
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