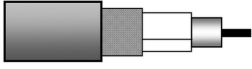


Product: [PRG11C0](#) 

COAX PRG11 CU PE CATV



Product Description

COAX [1.55/7.25] PRG11 CU PE CATV

Technical Specifications

Product Overview

Suitable Applications:	Coaxial cables used in cabled distribution networks designed according European Standard EN 50117-2-1 and EN 50117-2-4; Operating at frequencies between 5 MHz and 3000 MHz
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
15	Solid	BC - Bare Copper	1.55 mm	0.02 mm	1

Conductor Count:	1
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	7.25 mm	0.2 mm

Table Notes:	Centricity min. 85%
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Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Bare Copper (BC)	45%	2 mm			
Braid	2	Bare Copper (BC)	45%		7.9 mm	0.25 mm	5%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene	10.1 mm	0.3 mm

Table Notes:	According to European Standard EN 50290-2-20
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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
9.4 Ohm/km	20 Ohm/1000ft	12.3 Ohm/km

Capacitance

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

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance
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75 Ohm	3 Ohm	Min. 46 dB
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High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	0.9 dB/100m
50 MHz	2.8 dB/100m
100 MHz	3.9 dB/100m
200 MHz	5.7 dB/100m
400 MHz	8.2 dB/100m
600 MHz	10.2 dB/100m
800 MHz	12 dB/100m
1000 MHz	13.6 dB/100m
1350 MHz	16.1 dB/100m
1600 MHz	17.8 dB/100m
1750 MHz	18.7 dB/100m
2150 MHz	21.1 dB/100m
2400 MHz	22.5 dB/100m
2600 MHz	23.6 dB/100m
2800 MHz	24.7 dB/100m
3000 MHz	25.7 dB/100m

Table Notes:	Max. attenuation 10% higher
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Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
81%	2%

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 30 MHz	26 dB
30 - 470 MHz	26 dB
470 - 1000 MHz	23 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
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Screening

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

Screening Class:	B
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Transfer Impedance

Transfer Impedance
Max. 15 mOhm/m

Voltage

Voltage Test Dielectric
3.0 kV DC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-60°C To +70°C
Operating Temp Range:	-60°C To +70°C

Mechanical Characteristics

Min Bend Radius (W/o Pulling Strength):	100 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	12-120 N at 25 mm N

Standards

CPR Euroclass:	Fca
CENELEC Compliance:	EN 50117-2-1, EN 50117-2-4 and EN 50117-1

RG Type:	11/U Type
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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
PRG11C0.00250	Black	Reel	250 m	8719605105868
PRG11C0.00500	Black	Reel	500 m	8719605105875
PRG11C0.001000	Black	Reel	1,000 m	8719605105851
PRG11C0.01250	Green	Reel	250 m	8719605105899
PRG11C0.01500	Green	Reel	500 m	8719605105905

History

Update and Revision:	Revision Number: 0.181 Revision Date: 09-30-2020
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