



Product: [PRG11A2](#)

COAX PRG11 AL PVC CATV

Product Description

COAX [1.55/7.25] PRG11 AL PVC CATV

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Eca
Suitable Applications:	Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117; Operating at frequencies between 5 MHz and 2150 MHz; The International Standard IEC 1196

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

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	7.25 mm	0.2 mm

Insulation, Table Note: Centricity min. 85%

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Aluminum/Polyester/Aluminum		2 mm			
Braid	2	TC - Tinned Copper	46 %		7.9 mm	0.25 mm	5 %

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	10.1 mm	0.3 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	Max. Conductor Loop	Max. Shield DCR
9.4 Ohm/km	22.2 Ohm/1000ft	12.8 Ohm/km

Capacitance

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

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance
75 Ohm	3 Ohm	Min. 46 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	0.9 dB/100m
50 MHz	2.9 dB/100m
100 MHz	4.1 dB/100m
200 MHz	5.9 dB/100m
400 MHz	8.6 dB/100m
600 MHz	10.7 dB/100m
800 MHz	12.5 dB/100m
1000 MHz	14.2 dB/100m
1350 MHz	16.8 dB/100m
1600 MHz	18.5 dB/100m
1750 MHz	19.5 dB/100m
2150 MHz	21.9 dB/100m
2400 MHz	23.4 dB/100m
3000 MHz	26.7 dB/100m

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

High Freq Table Note: 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
3.0 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:	95 kg/km
Min Bend Radius (W/o Pulling Strength):	50 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	12-120 N at 25 mm N

Standards

ISO/IEC Compliance:	IEC 1196
CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117 and EN 50117-1
RG Type:	11/U Type

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01
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Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability: IEC 60332-1-2

Part Number

Variants

Item #	Color	Length
PRG11A2.00250	White	250 m
PRG11A2.00500	White	500 m
PRG11A2.009999	White	499 m

History

Update and Revision: Revision Number: 0.163 Revision Date: 01-31-2020

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