



Product: PRG11A3 ☑

COAX PRG11 AL PE CATV

# **Product Description**

COAX [1.55/7.25] PRG11 AL PE CATV

# **Technical Specifications**

# **Product Overview**

Suitable Applications:  Coaxial cables used in cabled distribution networks of International Standard IEC 1196	lesigned according the European Standard EN 50117; Operating at frequencies between 5 MHz and 2150 MHz; The
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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			

#### Insulation

Туре	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	7.25 mm	0.2 mm
Table Note	es:	Centricity min. 85%	

### Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Tri-Laminate (Alum+Poly+Alum)	100%	2 mm			
Braid	2	Tinned Copper (TC)	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 Sta

# **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	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	
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### High Frequency (Nominal/Typical)

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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

Table Notes: Max. attenuation 10% higher

#### 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

# 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:	-40°C To +70°C
Operating Temp Range:	-40°C To +70°C

### **Mechanical Characteristics**

Bulk Cable Weight:	78 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**

IEC Compliance:	IEC 1196
CENELEC Compliance:	EN 50117 and EN 50117-1
RG Type:	11/U Type

# **Applicable Environmental and Other Programs**

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

#### History

Update and Revision:

Revision Number: 0.181 Revision Date: 12-17-2020

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