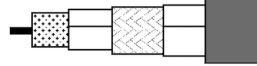




Product: [PRG11D1](#)

PRG11 DUOBONDPLUS FRNC/LSZH



Product Description

PRG11 DUOBONDPLUS FRNC/LSZH

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Eca
Suitable Applications:	Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117-2-1 and EN 50117-2-4; Operating at frequencies between 5 MHz and 3000 MHz

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

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape, bonded to dielectric	1	Aluminum/Polyester/Aluminum		1 mm			
Braid	2	TC - Tinned Copper	70 %		8.1 mm	0.25 mm	5 %
Tape, (L-folded) bonded to sheath	3	Aluminum/Polyester		1 mm			

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH / FRNC	10.1 mm	0.3 mm

OuterJacket1, Table Note: According to European Standard HD 624

Construction and Dimensions

Min Elongation at Breakof Jacket:	125 %
Min Tensile Strength of Jacket:	9 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
9.4 Ohm/km	18.9 Ohm/1000ft	7.0 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	2.8 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
3000 MHz	25.2 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 - 100 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	95 dB

Screening Class: A+

Transfer Impedance

Transfer Impedance
Max. 2.5 mOhm/m
Typ. 1.9 mOhm/m

Voltage

Voltage Test Dielectric
3.0 kV DC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-30°C To +70°C
Operating Temp Range:	-30°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:	Eca
CENELEC Compliance:	EN 50117-2-1, EN 50117-1 and EN 50117-2-4
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
LOI of Jacket:	Min. 35 %
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color	Length
PRG11D1.00250	Black	250 m
PRG11D1.00500	Black	500 m

History

Update and Revision:	Revision Number: 0.171 Revision Date: 02-17-2020
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