



Product: [H121A00](#) 

H121A00 - Broadband Coax, H121, 20 AWG Solid BC, Foil + 45% TC Braid, PVC Jkt

Product Description

Broadband Coax, H121, 20 AWG Solid Bare Copper Conductor, PE Insulation, Duofoil® + 45% Tinned Copper Braid Shield, PVC Jacket

Technical Specifications

Product Overview

Suitable Applications:	Broadband, Cable Television (CATV), RF drop cable, Over-The-Air (OTA) antennas
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Construction Details

RG Type:	59
Series Type:	59

Conductor

Number of Element	Size	Stranding	Nom. Diameter	Material
1	21 AWG	Solid	0.8 mm	BC - Bare Copper

Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene (Foam)	3.5 mm (0.14 in)

Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	100%
2	Braid	Tinned Copper (TC)	45%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	5 mm

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

Regularity of Impedance:	Min. 40 dB
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Return Loss (RL)

Frequency	Min. Return Loss
5 - 470 MHz	20 dB
470 - 1000 MHz	18 dB
1000 - 2000 MHz	16 dB
2000-3000 MHz	15 dB

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

Frequency	Nom. Attenuation
5 MHz	2.3 dB/100m
50 MHz	5.9 dB/100m
100 MHz	8.1 dB/100m

230 MHz	12.1 dB/100m
400 MHz	15.9 dB/100m
800 MHz	22.7 dB/100m
862 MHz	23.6 dB/100m
1000 MHz	25.6 dB/100m
1350 MHz	30 dB/100m
1750 MHz	34.5 dB/100m
2150 MHz	38.6 dB/100m
2400 MHz	41 dB/100m
3000 MHz	45.9 dB/100m

Table Notes: Max. attenuation 10% higher

Electricals

Max. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
35 Ohm/km (11 Ohm/1000ft)	40 Ohm/km (12 Ohm/1000ft)	53 pF/m (16 pF/ft)	75 Ohm	84%

Transfer Impedance

Frequency	Max. Transfer Impedance
5-30 MHz	Max. 50 mOhm/m

Screening

Frequency	Min. Screening Attenuation
30 - 1000 MHz	75 dB
1000 - 2000 MHz	
2000 - 3000 MHz	

Screening Class: C

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.
25 mm (0.98 in)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
CENELEC Compliance:	EN 50117-1, EN 50117-9-2 and EN 50290-2-20
European Directive Compliance:	EU CE Mark

History

Update and Revision: Revision Number: 0.202 Revision Date: 04-08-2022

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
H121A00.01B100	Black	Flat Box	100 m	8719605085450
H121A00.01250	Black	Reel	250 m	8719605085436
H121A00.01500	Black	Reel	500 m	8719605085443
H121A00.04B100	Blue	Flat Box	100 m	8719605085481
H121A00.02B100	Green	Flat Box	100 m	8719605085467
H121A00.03B100	Red	Flat Box	100 m	8719605085474
H121A00.00B100	White	Flat Box	100 m	8719605085412
H121A00.00250	White	Reel	250 m	8719605085382
H121A00.00U300	White	UnReel	300 m	8719605085429
H121A00.00500	White	Reel	500 m	8719605085399
H121A00.058500	White	Reel	8,500 m	8719605085498

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