Product: H121A03

Life Cycle Status: Discontinued

H121A03 - Broadband Coax, H121B, 20 AWG Solid BC, Foil + 75% TC Braid, PVC Jkt

Product Description

Broadband Coax, H121B, 20 AWG Solid Bare Copper Conductor, PE Insulation, Duofoil® + 75% Tinned Copper Braid Shield, PVC Jacket

Technical Specifications

Product Overview

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

Construction Details

RG Type:	59
Series Type:	59

Conductor

No. of Elements	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)	75%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	5 mm

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

Electrical Characteristics

Regularity of Impedance:	Min. 40 dB

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

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)	20 Ohm/km (6.1 Ohm/1000ft)	53 pF/m (16 pF/ft)	75 Ohm	84%

Transfer Impedance

Frequency	Max. Transfer Impedance
5-30 MHz	Max. 4.5 mOhm/m

Screening

Frequency	Min. Screening Attenuation
30 - 1000 MHz	85 dB
1000 - 2000 MHz	
2000 - 3000 MHz	

Screening Class:	A

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, EN 50290-2-20
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.211 Revision Date: 06-25-2024