



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
----------------------	--

© 2024 Belden, Inc
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.