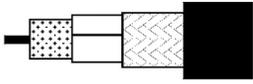


**Product:** [H1000CH](#) 



H1000CH - 50 Ohm Wireless Transmission Coax, H1000, RG8, 10 AWG Solid BC, CU-Foil + 50% BC Braid, LSZH Jkt

## Product Description

50 Ohm Wireless Transmission Coax, H1000, RG8, 10 AWG Solid Bare Copper Conductor, PE Insulation, Copper foil + 50% Bare Copper Braid Shield, LSZH Jacket

## Technical Specifications

### Product Overview

Suitable Applications:	Point-to-point and point-to-multipoint wireless antenna communication; Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification)
------------------------	--

### Construction Details

RG Type:	8
----------	---

#### Conductor

Number of Element	Size	Stranding	Nom. Diameter	Material
1	10 AWG	Solid	2.62 mm	BC - Bare Copper

#### Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene (Foam)	7.15 mm (0.281 in)

Table Notes:	Centricity min. 85%
--------------	---------------------

#### Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Tape	Bi-Laminate (Bare Copper+Poly)	100%
2	Braid	Bare Copper (BC)	50%

#### Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	10.3 mm

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

### Electrical Characteristics

Regularity of Impedance:	Min. 46 dB
--------------------------	------------

#### Attenuation

Frequency	Nom. Attenuation
5 MHz	0.8 dB/100m
50 MHz	2.8 dB/100m
100 MHz	4 dB/100m
200 MHz	5.7 dB/100m
400 MHz	8.4 dB/100m
600 MHz	10.5 dB/100m
800 MHz	12.3 dB/100m
1000 MHz	14 dB/100m
1350 MHz	16.7 dB/100m
1750 MHz	19.5 dB/100m

2150 MHz	22.1 dB/100m
2400 MHz	23.6 dB/100m
5000 MHz	37.4 dB/100m
10000 MHz	59.3 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.
3.5 Ohm/km (1.1 Ohm/1000ft)	12 Ohm/km (3.7 Ohm/1000ft)	80 pF/m (24 pF/ft)	50 Ohm	83%

#### Screening

Frequency	Min. Screening Attenuation
30 - 1000 MHz	90 dB

## Mechanical Characteristics

#### Temperature

Operating	Installation	Storage
-30°C To +70°C	-5°C To +50°C	-30°C To +70°C

#### Bend Radius

Stationary Min.
100 mm (3.9 in)

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor - Euroclass Dca
Flammability / Reaction to Fire:	IEC 60332-1-2 and IEC 60332-3-24, CEI 20-22-3
CPR Compliance:	CPR Euroclass: Dca-s1,d2,a1
ISO/IEC Compliance:	IEC 61196, IEC 61034-2 - Smoke Density Min Transmittance = 60%
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU CE Mark

## History

Update and Revision: Revision Number: 0.209 Revision Date: 04-08-2022

## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	EAN
H1000CH.00500	Black	Reel	500 m	8719605085337
H1000CH.002000	Black	Reel	2,000 m	8719605085320

© 2022 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.