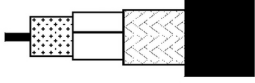


Product: [H1000CH](#) 

COAX RF H1000 FRNC/LSZH-C



## Product Description

COAX RF H1000 FRNC/LSZH-C

## Technical Specifications

### Product Overview

Suitable Applications:	Coaxial cables used for Radio-Frequency designed according the International Standard IEC 1196
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### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
10	Solid	BC - Bare Copper	2.62 mm	0.03 mm	1

Conductor Count:	1
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#### Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	7.15 mm	0.2 mm

Table Notes:	Centricity min. 85%
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#### Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Bi-Laminate (Bare Copper+Poly)	100%	2 mm			
Braid	2	Bare Copper (BC)	50%		7.8 mm	0.25 mm	5%

#### Outer Jacket Material

Material	Nominal Diameter	Diameter - Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	10.3 mm	0.3 mm

Table Notes:	According to European Standard EN 50290-2-20
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### Construction and Dimensions

Min Elongation at Breakof Jacket:	150 %
Min Tensile Strength of Jacket:	12.5 MPa

### Electrical Characteristics

#### Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
3.5 Ohm/km	15.5 Ohm/1000ft	12 Ohm/km

#### Capacitance

Nom. Capacitance	Capacitance Tolerance
80 pF/m	3 pF/m

#### Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance

50 Ohm	2 Ohm	Min. 46 dB
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#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
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

#### Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
83%	2%

#### Screening

Frequency [MHz]	Min. Screening Attenuation
30 - 1000 MHz	90 dB

#### 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:	41-410 N at 50 mm N

#### Standards

IEC Compliance:	IEC 1196
CPR Euroclass:	Cca-s1,d2,a1
RG Type:	8/U Type

#### Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Cca
EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01

#### Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Other Flammability:	CEI 20-22-3
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	60%

#### Part Number

## Variants

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

## History

Update and Revision:	Revision Number: 0.182 Revision Date: 12-17-2020
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