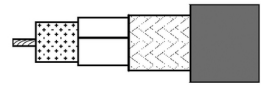


Product: [H1001C2](#) 

COAX RF H1001 PVC



Product Description

COAX RF [2.6/7.1] H1001 STRANDED PVC

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	Construction n x D	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
10	Stranded	BC - Bare Copper	19x0.54 mm	2.7 mm	0.05 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%		7.9 mm	0.25 mm	5%

Outer Jacket Material

Material	Nominal Diameter	Diameter - Tolerance
PVC - Polyvinyl Chloride	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:	300 %
Min Tensile Strength of Jacket:	10 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
4.5 Ohm/km	16.5 Ohm/1000ft	12 Ohm/km

Capacitance

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

Min Insulation Resistance:	10000 MOhm*km
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Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance
50 Ohm	2 Ohm	Min. 46 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	1 dB/100m
50 MHz	3.3 dB/100m
100 MHz	4.7 dB/100m
200 MHz	6.7 dB/100m
400 MHz	9.8 dB/100m
600 MHz	12.2 dB/100m
800 MHz	14.4 dB/100m
1000 MHz	16.3 dB/100m
1350 MHz	19.3 dB/100m
1750 MHz	22.5 dB/100m
2150 MHz	25.4 dB/100m
2400 MHz	27.1 dB/100m
5000 MHz	42.4 dB/100m
10000 MHz	66.4 dB/100m

Table Notes:	Max. attenuation 10% higher
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Delay

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

Screening

Frequency [MHz]	Min. Screening Attenuation
30 - 1000 MHz	100 dB

Voltage

Voltage Test Dielectric
3.0 kV DC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-25°C To +70°C
Operating Temp Range:	-25°C To +70°C

Mechanical Characteristics

Bulk Cable Weight:	127 kg/km
Min Bend Radius (W/o Pulling Strength):	100 mm
Crush Resistance:	Max. 1% (load of 700N) N

Standards

ISO/IEC Compliance:	IEC 1196
RG Type:	8

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
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Flammability, LS0H, Toxicity Testing

Burning Load:	1600 kJ/m
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Part Number

Variants

Item #	Color	Putup Type	Length	EAN
H1001C2.00500	Black	Reel	500 m	8719605085351

History

Update and Revision:	Revision Number: 0.176 Revision Date: 05-25-2021
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