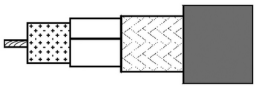
BELDEN
SENDING ALL THE RIGHT SIGNALS

Product: H1001C1

COAX RF H1001 PE



Product Description

COAX RF [2.6/7.1] H1001 STRANDED PE

Technical Specifications

Product Overview

Environmental Space:	Outdoor
Suitable Applications:	Coaxial cables used for Radio-Frequency designed according the International Standard IEC 1196

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

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	7.15 mm	0.2 mm

Insulation, Table Note:	Centricity min. 85%

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Copper - Polyester		2 mm			
Braid	2	BC - Bare Copper	49 %		7.9 mm	0.25 mm	5 %

Outer Jacket Material

Material	Nominal Diameter	Diameter - Tolerance
PE - Polyethylene	10.3 mm	0.3 mm

OuterJacket1, Table Note:	According to European Standard HD 624

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

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

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:	-40°C To +70°C
Operating Temp Range:	-40°C To +70°C

Mechanical Characteristics

Bulk Cable Weight:	109 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/U Type

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01

Part Number

Variants

Item #	Color	Length
H1001C1.00500	Black	500 m

History

Update and Revision:	Revision Number: 0.150 Revision Date: 01-31-2020