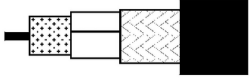


Product: [H500C00](#) 

COAX RF H500 PE



Product Description

COAX RF [2.5/7.0] H500 PE

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
11	Solid	BC - Bare Copper	2.5 mm	0.03 mm	1

Conductor Count:	1
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	7 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	Bare Copper (BC)	100%	2 mm			
Braid	2	Bare Copper (BC)	50%		7.45 mm	0.25 mm	5%

Outer Jacket Material

Material	Nominal Diameter	Diameter - Tolerance
PE - Polyethylene	9.8 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
3.8 Ohm/km	15.3 Ohm/1000ft	11.5 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
82 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	0.9 dB/100m
50 MHz	2.9 dB/100m
100 MHz	4.1 dB/100m
200 MHz	6 dB/100m
400 MHz	8.7 dB/100m
600 MHz	10.9 dB/100m
800 MHz	12.9 dB/100m
1000 MHz	14.6 dB/100m
1350 MHz	17.4 dB/100m
1750 MHz	20.3 dB/100m
2150 MHz	23 dB/100m
2400 MHz	24.6 dB/100m
5000 MHz	38.9 dB/100m
10000 MHz	61.7 dB/100m

Table Notes:	Max. attenuation 10% higher
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Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
81%	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:	-40°C To +70°C
Operating Temp Range:	-40°C To +70°C

Mechanical Characteristics

Bulk Cable Weight:	107 kg/km
Min Bend Radius (W/o Pulling Strength):	100 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	39-390 N at 50 mm N

Standards

IEC Compliance:	IEC 1196
RG Type:	58/U Type

Applicable Environmental and Other Programs

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

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
H500C00.00100	Black	Reel	100 m	8719605088062
H500C00.00250	Black	Reel	250 m	8719605088086
H500C00.00500	Black	Reel	500 m	8719605088093
H500C00.002000	Black	Reel	2,000 m	8719605088079
H500C00.012000	Black	Reel	2,000 m	8719605088109

History

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