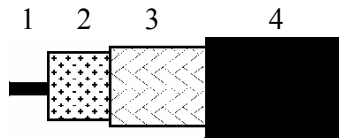




## APPLICATION

Coaxial cables used for Radio-frequency designed according the International Standard IEC 1196.

## CONSTRUCTION



1	Inner conductor	Solid soft annealed copper
2	Dielectric	Gas injected PE
3	Braid	Annealed copper
4	Sheath	PVC according the European Standard HD 624.

## REQUIREMENTS AND TEST METHODS

Test methods in accordance with International Standard IEC 1196.

### Mechanical characteristics

1. Inner conductor:	
Diameter:	2.62 mm ± 0.03 mm
2. Dielectric:	
Diameter:	7.15 mm ± 0.2 mm
Centricity:	≥ 0.85
Adhesion:	41 – 410 N at 50 mm
3. Outer conductor:	
Diameter screen:	7.7 mm ± 0.25 mm
Coverage braid:	25 % ± 5 %
4. Sheath:	
Diameter:	10.3 mm ± 0.3 mm
Tensile strength:	≥ 12.5 N/mm <sup>2</sup>
Elongation at break:	≥ 150 %
5. Cable:	
Crush resistance of cable:	< 1% (load of 700N)
Storage/operating temperature:	-15°C to +70°C
Minimum installation temperature:	-5 °C
Minimum static bend radius:	100 mm
Total weight:	137 g/m

**TECHNICAL DATA SHEET**EPN **H1000C2**vers **V1**date **15-07-04**page **2/2****COAX H1000R PVC****Electrical characteristics**

Mean characteristic impedance:	$50 \pm 2 \Omega$
Regularity of impedance:	$> 46 \text{ dB}$
DC loop resistance:	$\leq 38.5 \Omega/\text{km}$
DC resistance inner conductor:	$\leq 3.5 \Omega/\text{km}$
DC resistance outer conductor:	$\leq 35.0 \Omega/\text{km}$
Capacitance:	$80 \text{ pF/m} \pm 3 \text{ pF/m}$
Velocity ratio:	$0.83 \pm 0.02$
Insulation resistance:	$> 10^4 \text{ M}\Omega.\text{km}$
Voltage test of dielectric:	$3 \text{ kVdc}$

Attenuation at	Nominal	Attenuation at	Nominal
10 MHz:	2.0 dB/100m	300 MHz:	11.4 dB/100m
50 MHz:	4.5 dB/100m	400 MHz:	13.0 dB/100m
100 MHz:	6.3 dB/100m	860 MHz:	19.4 dB/100m
230 MHz:	9.6 dB/100m	1000 MHz:	22.5 dB/100m

Maximum attenuation is 10% higher.