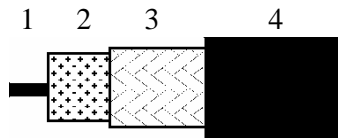


<b>TECHNICAL DATA SHEET</b>	code	<b>H1000C2</b>
	version	<b>2</b>
	date	<b>2005-11-02</b>
	page	<b>1/2</b>
<b>COAX H1000R PVC</b>		

### 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

**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 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.



Belden CDT believes this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.