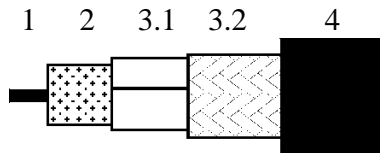
	<b>TECHNICAL DATA SHEET</b>	Code	<b>H124C02</b>
		version	<b>5</b>
		date	<b>2010-05-19</b>
	<b>COAX H124 CU LSNH PLUS UV</b>	page	<b>1/2</b>

## APPLICATION

Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117 operating at frequencies between 5 MHz and 2150 MHz. Cable fulfills according standard E4156.1-A3 and E4156.2-A4 of London Underground

## CONSTRUCTION




1	Inner conductor	Solid soft annealed copper
2	Dielectric	Gas injected PE (color white)
3.1	Foil	Copper
3.2	Braid	Annealed copper
4	Sheath	LSNH according the European Standard HD 624.

## REQUIREMENTS AND TEST METHODS

Test methods in accordance with European standard EN 50117-1.

### Mechanical characteristics

1. Inner conductor:	
Diameter:	1.00 mm ± 0.03 mm
Elongation at break	≥ 15%
2. Dielectric:	
Diameter:	4.4 mm ± 0.15 mm
3. Outer conductor:	
Diameter screen:	5.0 mm ± 0.2 mm
Foil overlap:	≥ 2 mm
Coverage braid:	38 % ± 4 %
4. Sheath:	
Diameter:	7.0 mm ± 0.2 mm
Nominal wall thickness:	1.0 mm
Tensile strength:	≥ 9.0 N/mm <sup>2</sup>
Elongation at break:	≥ 125 %
UV-resistant:	yes
Cable:	
Crush resistance of cable:	< 1% (load of 700N)
Storage/operating temperature:	-30°C to +70°C
Minimum installation temperature:	-5 °C
Minimum static bend radius:	70 mm
Total weight and copper weight:	52.5 and 16.3 kg/km
Color:	RAL 7032 (pebble grey), Black

	<b>TECHNICAL DATA SHEET</b>	Code	<b>H124C02</b>
		version	<b>5</b>
		date	<b>2010-05-19</b>
	<b>COAX H124 CU LSNH PLUS UV</b>	page	<b>2/2</b>

**Electrical characteristics**

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 40 dB
DC loop resistance:	≤ 41 Ω/km
DC resistance inner conductor:	≤ 23 Ω/km
DC resistance outer conductor:	≤ 19 Ω/km
Capacitance:	53 pF/m ± 2 pF/m
Velocity ratio:	0.84 ± 0.02
Insulation resistance:	> 10 <sup>4</sup> MΩ.km
Voltage test of dielectric:	2 kVdc
Screening attenuation 30-1000 MHz:	≥ 75 dB
Return loss at 5-30 MHz:	≥ 23 dB*
30-470 MHz:	≥ 23 dB*
470-862 MHz:	≥ 20 dB*
862-2150 MHz:	≥ 18 dB*

\*Max. 3 peak values 4 dB lower than specified.

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	1.3 dB/100m	800 MHz:	18.5 dB/100m
50 MHz:	4.3 dB/100m	1000 MHz:	20.9 dB/100m
100 MHz:	6.1 dB/100m	1350 MHz:	24.7 dB/100m
200 MHz:	8.8 dB/100m	1750 MHz:	28.6 dB/100m
400 MHz:	12.7 dB/100m	2150 MHz:	32.1 dB/100m
600 MHz:	15.8 dB/100m	2400 MHz:	34.2 dB/100m

Maximum attenuation is 10% higher.

**LIFE EXPECTANCY:**

Belden has designed the coax H124 for a performance lifetime expectancy of 40 years, and we actually guarantee this cable for 15 years.

**REVISIONS**

#	Description	Date	Initials
4	Marking info removed	2008-04-01	RvN
5	Changed the storage/operating temperature to -30°C	2010-05-19	PBo



Belden declares 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.