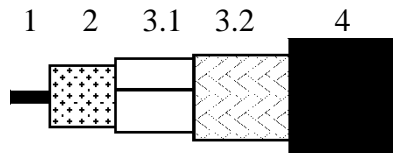
	TECHNICAL DATA SHEET	Code	H126A05
		version	1
		date	2009-10-01
	COAX H126 ALT LSNH	page	1/2

APPLICATION

Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117 operating at frequencies between 5 MHz and 3000 MHz and the International Standard IEC 1196.

CONSTRUCTION




1	Inner conductor	Solid soft annealed copper
2	Dielectric	Gas injected PE
3.1	Foil	AL-PET-AL
3.2	Braid	Annealed tinned copper
4	Sheath	LSNH/FRNC 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
2. Dielectric:	
Diameter:	4.57 mm ± 0.15 mm
Adhesion:	7.8 – 78 N at 25 mm
3. Outer conductor:	
Diameter screen:	5.25 mm ± 0.2 mm
Foil overlap:	≥ 1 mm
Coverage braid:	45 % ± 5 %
4. Sheath:	
Diameter:	6.9 mm ± 0.2 mm
Tensile strength:	≥ 9.0 N/mm ²
Elongation at break:	≥ 125 %
Corrosivity	To meet European Standard HD602
LOI	>35%
Resistance to flame propagation:	To meet IEC 60332-3C
5. Cable:	
Crush resistance of cable:	< 1% (load of 700N)
Storage/operating temperature:	-30°C to +70°C
Minimum installation temperature:	-5 °C
Maximum tensile strength of cable:	55 N
Minimum static bend radius:	35 mm

	TECHNICAL DATA SHEET	Code	H126A05
		version	1
		date	2009-10-01
	COAX H126 ALT LSNH	page	2/2

Electrical characteristics

Mean characteristic impedance:	$75 \pm 3 \Omega$
Regularity of impedance:	$> 40 \text{ dB}$
DC loop resistance:	$\leq 45 \Omega/\text{km}$
DC resistance inner conductor:	$\leq 23 \Omega/\text{km}$
DC resistance outer conductor:	$\leq 22 \Omega/\text{km}$
Capacitance:	$54 \text{ pF/m} \pm 2 \text{ pF/m}$
Velocity ratio:	0.82 ± 0.02
Insulation resistance:	$> 10^4 \text{ M}\Omega.\text{km}$
Voltage test of dielectric:	2 kVdc
Screening efficiency 30-1000 MHz:	$\geq 85 \text{ dB}$
Return loss at 5-30 MHz:	$\geq 23 \text{ dB}^*$
30-470 MHz:	$\geq 23 \text{ dB}^*$
470-1000 MHz:	$\geq 20 \text{ dB}^*$
1000-2000 MHz:	$\geq 18 \text{ dB}^*$
2000-3000 MHz:	$\geq 16 \text{ dB}^*$

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

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	1.8 dB/100m	1000 MHz:	21.1 dB/100m
50 MHz:	4.7 dB/100m	1350 MHz:	24.9 dB/100m
100 MHz:	6.5 dB/100m	1750 MHz:	28.8 dB/100m
200 MHz:	9.8 dB/100m	2150 MHz:	32.3 dB/100m
400 MHz:	13.0 dB/100m	2400 MHz:	34.4 dB/100m
600 MHz:	16.2 dB/100m	3000 MHz:	39.2 dB/100m
800 MHz:	18.7 dB/100m		

Maximum attenuation is 10 % higher.

REVISIONS

#	Description	Date	Initials



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.