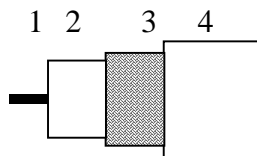
	<b>TECHNICAL DATA SHEET</b>	code	<b>MRG5902</b>
		version	<b>2</b>
		date	<b>2005-12-12</b>
	<b>COAX RG59 LSNH</b>	page	<b>1/2</b>

## APPLICATION

Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117 operating at frequencies between 5 MHz and 860 MHz and the International Standard IEC 1196.

## CONSTRUCTION




1	Inner conductor	Copper clad steel
2	Dielectric	Solid PE
3	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:		0.58 mm ± 0.02 mm
2. Dielectric:		
Diameter:		3.7 mm ± 0.15 mm
3. Outer conductor:		
Diameter screen:		4.3 mm ± 0.2 mm
Coverage braid:		91 % ± 4 %
4. Sheath:		
Diameter:		6.15 mm ± 0.2 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:		35 mm
Total weight:		100 g/m

	<b>TECHNICAL DATA SHEET</b>	code	<b>MRG5902</b>
		version	<b>2</b>
		date	<b>2005-12-12</b>
	<b>COAX RG59 LSNH</b>	page	<b>2/2</b>

### Electrical characteristics

Mean characteristic impedance:	$75 \pm 3 \Omega$
Regularity of impedance:	$> 40 \text{ dB}$
DC resistance inner conductor:	$\leq 79 \Omega/\text{km}$
Capacitance:	$67 \text{ pF/m} \pm 2 \text{ pF/m}$
Velocity ratio:	nominal 0.66
Insulation resistance:	$> 10^4 \text{ M}\Omega.\text{km}$
Voltage test of dielectric:	2 kVdc

Return loss at	5-30 MHz:	$\geq 20 \text{ dB}^*$
	30-470 MHz:	$\geq 20 \text{ dB}^*$
	470-862 MHz:	$\geq 18 \text{ dB}^*$

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

Attenuation at	Nominal		
5 MHz:	2.9 dB/100m	1000 MHz:	42.9 dB/100m
50 MHz:	8.0 dB/100m	1350 MHz:	50.0 dB/100m
100 MHz:	11.6 dB/100m	1600 MHz:	54.5 dB/100m
230 MHz:	18.3 dB/100m	1750 MHz:	57.0 dB/100m
300 MHz:	21.2 dB/100m	2150 MHz:	63.0 dB/100m
400 MHz:	25.0 dB/100m		
470 MHz:	27.5 dB/100m		
860 MHz:	39.2 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.

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