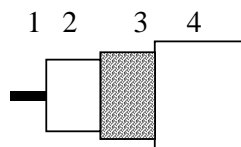
	<b>TECHNICAL DATA SHEET</b>	code	<b>MRG5801</b>
		version	<b>1</b>
	<b>Coax cable</b>	date	<b>2006-03-29</b>
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## APPLICATION

Coaxial communication cable based on MIL-C-17.

## CONSTRUCTION




1	Inner conductor	Stranded tinned copper
2	Dielectric	Solid PE
3	Braid	Annealed tinned copper
4	Sheath	LSNH according the European Standard HD 624.

## REQUIREMENTS AND TEST METHODS

Test methods in accordance with European standard EN 50289.

### Mechanical characteristics

1. Inner conductor:		
	Diameter:	19 x 0.18 mm ± 0.02 mm
2. Dielectric:		
	Diameter:	2.95 mm ± 0.15 mm
3. Outer conductor:		
	Diameter screen:	3.5 mm ± 0.2 mm
	Coverage braid:	93 % ± 4 %
4. Sheath:		
	Diameter:	4.95 mm ± 0.2 mm
	Tensile strength:	≥ 9.0 N/mm <sup>2</sup>
	Elongation at break:	≥ 125 %
5. Cable:		
	Crush resistance of cable:	< 1% (load of 700N)
	Temperature range -storage/operating:	-15°C to +70°C
	Temperature range -installation:	-5 °C to + 50°C
	Minimum static bend radius:	25 mm
	Total weight:	38 kg/km

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### Electrical characteristics

Mean characteristic impedance:	$50 \pm 2 \Omega$
Regularity of impedance:	> 40 dB
DC resistance inner conductor:	$\leq 36 \Omega/\text{km}$
Capacitance:	$100 \text{ pF/m} \pm 2 \text{ pF/m}$
Nominal velocity of propagation:	66 %
Insulation resistance:	$> 10^4 \text{ M}\Omega.\text{km}$
Voltage Rating	
DC:	4 kVdc
RMS	2kVrms

Return loss at	5-30 MHz:	$\geq 20 \text{ dB}^*$
	30-470 MHz:	$\geq 20 \text{ dB}^*$
	470-1000 MHz:	$\geq 18 \text{ dB}^*$

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

### Nominal Attenuation:

10 MHz:	4.5 dB/100m
200 MHz:	22.0 dB/100m
400 MHz:	32.0 dB/100m
1000 MHz:	50.0 dB/100m
2400 MHz:	79.0 dB/100m
3000 MHz:	88.0 dB/100m



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.