

APPLICATION

Coaxial communication cable based on MIL-C-17.

CONSTRUCTION

3



- 1 Inner conductor Stranded tinned copper
- 2 Dielectric Solid PE
 - Braid Annealed tinned copper
- 4 Sheath PVC 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:	$19 \ge 0.18 \text{ mm} \pm 0.02 \text{ mm}$
2. Dielectric:	
Diameter:	$2.95 \text{ mm} \pm 0.15 \text{ mm}$
3. Outer conductor:	
Diameter screen:	$3.5 \text{ mm} \pm 0.2 \text{ mm}$
Coverage braid:	93 % ± 4 %
4. Sheath:	
Diameter:	$4.95 \text{ mm} \pm 0.2 \text{ mm}$
Tensile strength:	\geq 12.5 N/mm ²
Elongation at break:	$\geq 150 \%$
5. Cable:	
Crush resistance of cable:	<1% (load of 700N)
Storage/operating temperature:	-40°C to +70°C
Minimum installation temperature:	-5 °C
Minimum static bend radius:	25 mm

BELDER SENDING ALL THE RIGHT SIGNALS	TECHNICAL DATA SHEET	code	MRG5800
		version	6
		date	2008-06-05
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Electrical charac	teristics		
Mean characteristic impedance:		$50\pm 2~\Omega$	
Regularity of impedance:		>40 dB	
DC resistance inner conductor:		$\leq 40.6 \ \Omega/km$	
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 dB*	

 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:	4.7 dB/100m
200 MHz:	23.0 dB/100m
400 MHz:	34.0 dB/100m
1000 MHz:	60.0 dB/100m

Maximum attenuation is 10% higher.

REVISIONS

#	Description	Date	Initials
6	Higher values of the attenuation, limited up to 1000MHz	2008-06-05	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.