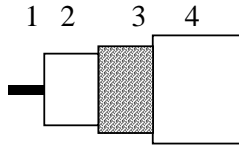


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APPLICATION

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/mm²
 - 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

 BELDEN SENDING ALL THE RIGHT SIGNALS	TECHNICAL DATA SHEET	code	MRG5801
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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.